## fkb practice Tests

# Grade 2 Maths 

These tests are compiled from
public domain resources mailny from state issued tests.

## Grade 2 Maths Tests <br> Contents and Printing Guide

This page can be used for selecting material to print for students, note, document may be printed as a paper or electronic (pdf) copy using the page subsets below.

## Grade 2 Maths Jamaica State

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## GRADE TWO END OF YEAR SAMPLE TEST

## TABLE OF SPECIFICATION: SECTION A

## SECTION A - MULTIPLE CHOICE

Section A comprises 30 multiple-choice items covering the five strands of the curriculum. All items are weighted equally and together are worth 30 marks.

| STRANDS | Simple Recall/ Knowledge | Use of Knowledge | Mathematical Reasoning | Total \# of Items |
| :---: | :---: | :---: | :---: | :---: |
| Number | 7 (Ques.3,14,18,19,23,25,27) | $\begin{gathered} 7 \\ \text { (Ques.I,2,I3,I6,I7,2I,24) } \end{gathered}$ | (Quest.28) | 15 |
| Measurement |  | $\begin{gathered} 4 \\ \text { (Ques. 4,5,9,I5) } \end{gathered}$ | $4$ <br> (Ques. 6, $12,29,30)$ | 8 |
| Geometry | $2$ <br> (Ques. 7, 26) | $\begin{gathered} \text { I } \\ \text { (Ques. 22) } \end{gathered}$ | - | 3 |
| Algebra | - | $\begin{gathered} \text { I } \\ \text { (Ques. 20) } \end{gathered}$ | I <br> (Ques. 8) | 2 |
| Statistics | - | $\begin{gathered} 2 \\ (\text { Ques., IO,II) } \end{gathered}$ | 0 | 2 |
| Total \# of Items | 9 | 15 | 6 | 30 |

## TABLE OF SPECIFICATION: SECTION B

Section B comprises 6 structured questions covering all five strands of the curriculum. Students are required to answer all questions. Items are weighted equally and together are worth 20 marks.

SECTION B

| STRANDS | Simple Recall/Knowledge | Use of Knowledge | Mathematical Reasoning | Total \# of Marks |
| :---: | :---: | :---: | :---: | :---: |
| Number | - | $\begin{gathered} 3 \\ \text { (Ques. 5a, 5c, 6a) } \end{gathered}$ | $\begin{gathered} 4 \\ \text { (Ques.5b, 6b) } \end{gathered}$ | 7 |
| Measurement | 2 <br> (Ques. 3a, 3b) | 2 <br> (Ques. 3c) | - | 4 |
| Geometry | - | 2 <br> (Ques. I) | - | 2 |
| Algebra | - | - | 3 <br> (Ques. 4) | 3 |
| Statistics | 2 <br> (Ques. 2a, 2b) | $\begin{gathered} 2 \\ \text { (Ques.2c, 2d) } \end{gathered}$ |  | 4 |
| Total \# of Marks | 4 | 9 | 7 | 20 |

## SAMPLE END OF YEAR TEST - SECTION A

Grade Two Mathematics Sample End of Year Test

Name: $\qquad$ Date: $\qquad$

## SECTION A

CIRCLE THE CORRECT ANSWER FOR EACH OF THE FOLLOWING.

1. Look at the number 195 , what is the place value of the 9 ?
a) ones
b) tens
c) hundreds
d) thousands
2. What fraction is shaded?
a) $\frac{1}{4}$
b) $\frac{1}{3}$
c) $\frac{1}{2}$

d) $\frac{2}{2}$
3. In the series $15,20,25, \ldots$. What would the next number be?
a) 20
b) 30
c) 35
d) 40
4. What time is shown on the clock?

a) $12: 15$
b) $1: 15$
c) $12: 30$
d) $12: 03$

Use the table below to answer questions 5 and 6.

| July 20I I |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |  |
|  |  |  |  |  | 1 | 2 |  |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |  |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |  |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |
| 31 |  |  |  |  |  |  |  |

5. What date is the third Thursday of July?
a) $2^{\text {th }}$
b) $21^{\text {st }}$
c) $14^{\text {th }}$
d) $7^{\text {th }}$
6. On what day did the month of June end?
a) Monday
b) Tuesday
c) Thursday
d) Friday
7. What does the diagram show?
a) an open path
b) straight line

c) a closed path
d) a curve
8. $\quad 10-\square=3$, what is the value of $\square$ ?
a) 5
b) 7
c) 8
d) 13
9. What is the approximate length of the line?

a) 2 cm
b) 5 cm
c) 7 cm
d) 12 cm

Use the graph below to answer questions 10-11.
The graph shows the number of cookies received by 3 students.

10. How many cookies did Jane receive?
a) 4
b) 6
c) 8
d) 12
11. How many cookies were given out in all?
a) 4
b) 6
c) 8
d) 18
12. Ron and Don are brothers. Ron weighs 42 kg and Don weighs 48kg. How many kg more than Ron does Don weigh?
a) 6 kg
b) 42 kg
C) 48 kg
d) 90 kg
13. What is $4 \frac{1}{2}$ written as an improper fraction?
a) $\frac{2}{9}$
b) $\frac{9}{2}$
C) $\frac{1}{2}$
d) $\frac{5}{2}$
14. 16 scouts are in a room. 7 scouts are asleep. How many scouts are awake?
a) 23
b) 13
C) 10
d) 9
15. The game began at 4 o'clock and lasted for half an hour. At what time did it end?
a) 5 o'clock
b) $4: 30$
c) 6 o'clock
d) $5: 30$
16. Three eggs cost $\$ 45$. A small bread costs $\$ 58$. What is the total cost for 3 eggs and 1 small bread?
a) $\$ 113$
b) $\$ 103$
c) $\$ 93$
d) $\$ 13$
17. Mary has 12 cookies. She gives away one-quarter of her share. How many cookies did she give away?
a) 9
b) 6
C) 4
d) 3
18. What fraction of the set is shaded?

a) $\frac{1}{4}$
b) $\frac{3}{4}$
C) $\frac{1}{12}$
d) $\frac{1}{2}$
19. Insert the correct symbol to make the statement true.

17 $\qquad$ 15
a) $=$
b) $>$
c) $<$
d) +
20. Sarah has 29 sweets in a bag. Suzan then gives her $p$ number of sweets. She now has 44 sweets. How many sweets did Suzan give her?
a) 15
b) 19
C) 25
d) 73
21. The following can be written as:


| Tens | Ones |
| :---: | :---: |
| 1 | 6 |

a)

| Tens | Ones |
| :---: | :---: |
| 1 | 9 |

b)

| Tens | Ones |
| :---: | :---: |
| 2 | 0 |

c)

| Tens | Ones |
| :---: | :---: |
| 9 | 1 |

d)
22. Which of the following shows line of symmetry?
a)

b)

c)

d)

23. What is the value of $\frac{1}{7}+\frac{3}{7}$ ?
a) $\frac{4}{7}$
b) $\frac{4}{14}$
c) $\frac{2}{7}$
d) $\frac{2}{14}$
24. What is 145 written in expanded form?
a) $100+4+50$
b) $100+4+5$
c) $100+40+5$
d) $1+4+5$
25. Thomas has $\$ 185$. He spends $\$ 25$. How much money does he have left?
a) $\$ 155$
b) $\$ 160$
C) $\$ 165$
d) $\$ 170$
26. Which of the following shows a curved path?
a)

b)

c)

d)

27. Calculate the value of $\frac{8}{9}-\frac{6}{9}$
a) $\frac{14}{18}$
b) $\frac{2}{9}$
C) $\frac{14}{9}$
d) $\frac{2}{0}$
28. A cat has 1 nose and 4 legs. Two cats have 2 noses and 8 legs.


How many cats are there if there are 16 legs and 4 noses?
a) 20
b) 15
c) 6
d) 4
29.


What is the total volume of water in both containers A and B ?
a) 10 L
b) 11 L
c) 12 L
d) 14 L
30. The pail can hold $\qquad$ litres of water
a) 3 litres
b) 5 litres
c) 7 litres
d) 9 litres


# SAMPLE END OF YEAR TEST - SECTION B 

Grade Two Mathematics Sample End of Year Test

Name: $\qquad$ Date: $\qquad$
SECTION B
ANSWER ALL QUESTIONS IN THIS SECTION

1. Study the figure below.

(1 mark)

b) How many more

are needed to complete the square? ( 1 mark)
2. The table shows the number of marbles that Shawn and Toni-Ann have. Answer the following questions from the table.

represents 1 marble
a) Shawn has $\qquad$ marbles.
b) Toni-Ann has $\qquad$ marbles.
c) Toni-Ann has $\qquad$ more marbles than Shawn.
d) How many marbles do they both have in all? $\qquad$
3. Look at the pictures. Answer the questions.

a) Who is 1 metre tall? $\qquad$ .
b) $\qquad$ is shorter than 1 metre
c) $\qquad$ is shorter than $\qquad$ who is taller than $\qquad$ . (2 marks)
4. Ben had n marbles. His friend Akeem gave him 15 more.

He now has 29 marbles. How many marbles did Ben have before? $\qquad$ (3 marks)
5. If you have $\$ 50$, which two of the items below could you buy? $\qquad$

a) I could buy $\qquad$
b) How much change would you have left from the $\$ 50$ ?
$\qquad$
c) Which two items could be bought for $\$ 95$ ?
$\qquad$
6. Julia packs some cookies into some small and big boxes.

She packs 5 cookies into each small box.


She packs 2 more cookies into each big box than each small box.
a) How many cookies does she pack into 2 small boxes? $\qquad$ (1 mark)
b) How many cookies does she pack into 3 big boxes? $\qquad$ (2 marks)

## SAMPLE END OF YEAR TEST - ANSWER SHEET

Answer Sheet

## Grade Two Sample Test

| 1. | B | 16. | B |
| :---: | :---: | :---: | :---: |
| 2. | C | 17. | D |
| 3. | B | 18. | A |
| 4. | A | 19. | B |
| 5. | B | 20. | A |
| 6. | C | 21. | B |
| 7. | C | 22. | C |
| 8. | B | 23. | A |
| 9. | B | 24. | C |
| 10. | C | 25. | B |
| 11. | D | 26. | C |
| 12. | A | 27. | B |
| 13. | B | 28. | D |
| 14. | D | 29. | C |
| 15. | B | 30. | B |

## Introduction - Grade 2 Mathematics

The following released test questions are taken from the Grade 2 Mathematics Standards Test. This test is one of the California Standards Tests administered as part of the Standardized Testing and Reporting (STAR) Program under policies set by the State Board of Education.

All questions on the California Standards Tests are evaluated by committees of content experts, including teachers and administrators, to ensure their appropriateness for measuring the California academic content standards in Grade 2 Mathematics. In addition to content, all items are reviewed and approved to ensure their adherence to the principles of fairness and to ensure no bias exists with respect to characteristics such as gender, ethnicity, and language.

This document contains released test questions from the California Standards Test forms in 2003, 2004, 2005, and 2006. First on the pages that follow are lists of the standards assessed on the Grade 2 Mathematics Test. Next are released test questions. Following the questions is a table that gives the correct answer for each question, the content standard that each question is measuring, and the year each question last appeared on the test.

The following table lists each strand/reporting cluster, the number of items that appear on the exam, and the number of released test questions that appear in this document.

| STRAND/REPORTING <br> CLUSTER | NUMBER OF <br> QUESTIONS ON <br> EXAM | NUMBER OF <br> RELEASED TEST <br> QUESTIONS |
| :--- | :---: | :---: |
| Number Sense - Place Value, Addition, and Subtraction | 15 | 15 |
| Number Sense - Multiplication, Division, and Fractions | 23 | 22 |
| Algebra and Functions | 6 | 6 |
| Measurement and Geometry | 14 | 14 |
| Statistics, Data Analysis, and Probability | 7 | 7 |
| TOTAL | 65 | 64 |

In selecting test questions for release, three criteria are used: (1) the questions adequately cover a selection of the academic content standards assessed on the Grade 2 Mathematics Test; (2) the questions demonstrate a range of difficulty; and (3) the questions present a variety of ways standards can be assessed. These released test questions do not reflect all of the ways the standards may be assessed. Released test questions will not appear on future tests.

In Grade 2, the actual Mathematics question does not appear in the test booklet but is read to the students by the teacher administering the test. In this booklet, the questions are printed in bold-faced capital letters.

For more information about the California Standards Tests, visit the California Department of Education's Web site at http://www.cde.ca.gov/ta/tg/sr/resources.asp. Math

## THE NUMBER SENSE STRAND

In Grade 2, there are two reporting clusters within the Number Sense strand: 1) Place Value, Addition, and Subtraction and 2) Multiplication, Division, and Fractions. This booklet contains released test questions for each of these clusters.

The following five California content standards are included in the Place Value, Addition, and Subtraction reporting cluster of the Number Sense strand and are represented in this booklet by 15 test questions. These questions represent only some ways in which these standards may be assessed on the Grade 2 California Mathematics Standards Test.

CALIFORNIA CONTENT STANDARDS IN THIS REPORTING CLUSTER

| Number Sense |  |
| :--- | :--- |
| Standard Set 1.0 | Students understand the relationship between numbers, quantities, and <br> place value in whole numbers up to 1,000: |
| 2NS1.1* | Count, read, and write whole numbers to 1,000 and identify the place value for <br> each digit. |
| 2NS1.2 | Use words, models, and expanded forms (e.g., 45 = 4 tens + 5) to represent <br> numbers (to 1,000). |
| 2NS1.3* | Order and compare whole numbers to 1,000 by using the symbols <, $=, ~>. ~$ |
| Standard Set 2.00 | Students estimate, calculate, and solve problems involving addition and <br> subtraction of two- and three-digit numbers: |
| 2NS2.1* | Understand and use the inverse relationship between addition and subtraction <br> (e.g., an opposite number sentence for $8+6=14$ is 14 $-6=8$ ) to solve <br> problems and check solutions. |
| 2NS2.2* | Find the sum or difference of two whole numbers up to three digits long. |

* Denotes key standards (Mathematics Framework for California Public Schools)

The following nine California content standards are included in the Multiplication, Division, and Fractions reporting cluster of the Number Sense strand and are represented in this booklet by 22 test questions. These questions represent only some ways in which these standards may be assessed on the Grade 2 California Mathematics Standards Test.

## CALIFORNIA CONTENT STANDARDS IN THIS REPORTING CLUSTER

| Number Sense |  |
| :---: | :---: |
| Standard Set 3.0* | Students model and solve simple problems involving multiplication and division: |
| 2NS3.1* | Use repeated addition, arrays, and counting by multiples to do multiplication. |
| 2NS3.2* | Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division. |
| 2NS3.3* | Know the multiplication tables of $2 \mathrm{~s}, 5 \mathrm{~s}$, and 10 s (to "times 10 ") and commit them to memory. |
| Standard Set 4.0 | Students understand that fractions and decimals may refer to parts of a set and parts of a whole: |
| 2NS4.1* | Recognize, name, and compare unit fractions from 1/12 to 1/2. |
| 2NS4.2* | Recognize fractions of a whole and parts of a group (e.g., one-fourth of a pie, two-thirds of 15 balls). |
| 2NS4.3* | Know that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one. |
| Standard Set 5.0 | Students model and solve problems by representing, adding, and subtracting amounts of money: |
| 2NS5.1* | Solve problems using combinations of coins and bills. |
| 2NS5.2* | Know and use the decimal notation and the dollar and cent symbols for money. |
| Standard Set 6.0 | Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places: |
| 2NS6.1 | Recognize when an estimate is reasonable in measurements (e.g., closest inch). |

* Denotes key standards (Mathematics Framework for California Public Schools)


## THE ALGEBRA AND FUNCTIONS STRAND/REPORTING CLUSTER

The following three California content standards are included in the Algebra and Functions strand/reporting cluster and are represented in this booklet by six test questions. These questions represent only some ways in which these standards may be assessed on the Grade 2 California Mathematics Standards Test.

## CALIFORNIA CONTENT STANDARDS IN THIS STRAND/CLUSTER

| Algebra and Functions |  |
| :--- | :--- |
| Standard Set 1.0 | Students model, represent, and interpret number relationships to create <br> and solve problems involving addition and subtraction: |
| 2 AF1.1* | Use the commutative and associative rules to simplify mental calculations and <br> to check results. |
| 2 AF1.2 | Relate problem situations to number sentences involving addition and <br> subtraction. |
| 2 AF1.3 | Solve addition and subtraction problems by using data from simple charts, <br> picture graphs, and number sentences. |

* Denotes key standards (Mathematics Framework for California Public Schools)


## THE MEASUREMENT AND GEOMETRY STRAND/REPORTING CLUSTER

The following seven California content standards are included in the Measurement and Geometry strand/ reporting cluster and are represented in this booklet by 14 test questions. These questions represent only some ways in which these standards may be assessed on the Grade 2 California Mathematics Standards Test.

## CALIFORNIA CONTENT STANDARDS IN THIS STRAND/CLUSTER

| Measurement and Geometry |  |
| :--- | :--- |
| Standard Set 1.0 | Students understand that measurement is accomplished by identifying a <br> unit of measure, iterating (repeating) that unit, and comparing it to the item <br> to be measured: |
| 2MG1.1 | Measure the length of objects by iterating (repeating) a nonstandard or <br> standard unit. |
| 2MG1.2 | Use different units to measure the same object and predict whether the measure <br> will be greater or smaller when a different unit is used. |
| 2MG1.3* | Measure the length of an object to the nearest inch and/or centimeter. <br> (e.g., minutes in an hour, days in a month, weeks in a year). |
| 2MG1.4 | Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to <br> 4:00 p.m.). |
| Standard Set 2.0* | Students identify and describe the attributes of common figures in the <br> plane and of common objects in space: |
| $2 M G 2.1^{*}$ | Describe and classify plane and solid geometric shapes (e.g., circle, triangle, <br> square, rectangle, sphere, pyramid, cube, rectangular prism) according to the <br> number and shape of faces, edges, and vertices. |
| 2MG2.2* | Put shapes together and take them apart to form other shapes (e.g., two <br> congruent right triangles can be arranged to form a rectangle). |

* Denotes key standards (Mathematics Framework for California Public Schools)


## THE STATISTICS, DATA ANALYSIS, AND PROBABILITY STRAND/REPORTING CLUSTER

The following four California content standards are included in the Statistics, Data Analysis, and Probability strand/reporting cluster and are represented in this booklet by seven test questions. These questions represent only some ways in which these standards may be assessed on the Grade 2 California Mathematics Standards Test.

CALIFORNIA CONTENT STANDARDS IN THIS STRAND/CLUSTER

| Statistics, Data Analysis, and Probability |  |
| :---: | :---: |
| Standard Set 1.0* | Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations: |
| 2PS1.1 | Record numerical data in systematic ways, keeping track of what has been counted. |
| 2PS1.2 | Represent the same data set in more than one way (e.g., bar graphs and charts with tallies). |
| 2PS1.3 | Identify features of data sets (range and mode). |
| 2PS1.4 | Ask and answer simple questions related to data representations. |

The questions in brackets are not printed in the test booklet. The test administrator reads these questions aloud to students.
869
A

896
B

968
C

986
D

2 [WHAT IS THE VALUE OF THE FIVE IN FIVE HUNDRED TWENTY-SIX?]

|  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |$|$| 5 | 50 | 500 |
| :---: | :---: | :---: |
| A | B | C |

3 [LOOK AT THE NUMBER. WHICH DIGIT IS IN THE TENS PLACE?]

| 962 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 6 | 9 | 10 |  |
| A | B | C | D |  |
|  |  |  |  |  |

4 [WHAT IS ANOTHER NAME FOR FOUR HUNDRED PLUS FORTY PLUS EIGHT?]
4408
448
400408
4048
B
C
D

5 [What is another way to write nine hundred eighty-seven?]

$$
\begin{array}{cc}
900+87+7 & 980+70+0 \\
\text { A } & \text { C } \\
700+80+9 & 900+80+7 \\
\text { B } & \text { D }
\end{array}
$$

6 [WHICH NUMBER SENTENCE IS TRUE?]
$359<375$
$359>375$
$359<359$
$359>359$
A
B
C
D

7 [WHICH NUMBER GOES IN THE BOX?]

$$
386<\square<521
$$

297
A
334
B

410
528
C
D

## $22+10 \square 32$

| $=$ | + | $>$ | $<$ |
| :--- | :--- | :--- | :--- |
| $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | $\mathbf{D}$ |

$91>\square$

## A

B
C
D

10 [SOPHIE DID THIS SUBTRACTION PROBLEM. WHICH ADDITION PROBLEM SHOWS THAT SHE GOT THE RIGHT ANSWER?]

$$
\begin{array}{r}
85 \\
-44 \\
\hline 41
\end{array}
$$



A


B


C


D

11 [WHICH Of these can be used to check the answer to the problem in the box?]

$$
4+3=7
$$

A $7+3=10$
C
$2+5=7$
B $\quad 7-4=3$
D $\quad 10-3=7$

12 [WHAT IS THE SOLUTION TO THIS PROBLEM?]
$\begin{array}{r}419 \\ -\quad 12 \\ \hline\end{array}$

431

A
B
421
C
D

13

|  | $\mathbf{1 2 3}$ <br> $+\quad 27$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| A | 140 |  | 144 | 150 |
|  | B | C | D |  |

14 [TONI HAD SEVEN HUNDRED FIFTY-NINE CUCUMBERS. SHE SOLD FIVE HUNDRED SIXTYTHREE OF THEM. HOW MANY CUCUMBERS DOES TONI HAVE LEFT?]

| 116 | 196 | 216 | 296 |
| :---: | :---: | :---: | :---: |
| A | B | C | D |

15 [WHAT IS TWO HUNDRED FIFTEEN PLUS FIFTY-SEVEN?]

|  |  | 215 <br> $+\quad 57$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| 158 | 262 |  | 271 | 272 |
| A | B | C | D |  |

16 [WHICH DRAWING SHOWS thREE TIMES FIVE?]


17 [DAVID READS TWO PAGES EVERY FIVE MINUTES. HOW MANY PAGES WILL DAVID HAVE READ AFTER TWENTY-FIVE MINUTES?]

David's Reading

| Minutes | 5 | 10 | 15 | 20 | 25 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Pages | 2 | 4 | 6 | 8 |  |

9 pages
A

10 pages
B

11 pages
C

12 pages
D

$1 \quad 2$
3
4
A
B
C
D

19 [WHICH PICTURE SHOWS HOW THREE CHILDREN SHOULD SHARE TWELVE COOKIES EQUALLY?]


A


B


C


D

# 21 Shells <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> 7 <br> B <br> 6 <br> A <br> 8 <br> 9 <br> C <br> D 



22 [THERE WERE TEN FROGS IN A POND. EACH FROG HAD FOUR LEGS. HOW MANY FROG LEGS WERE THERE ALL TOGETHER?]


4 legs

40
50
104
A
B
C
D

23 [WHICH NUMBER SHOWS THE ANSWER TO FIVE TIMES SIX?]
11
25
30
35
A
B
C
D

24 [WHAT FRACTIONAL PART OF THIS FIGURE IS SHADED?]

$\frac{1}{8}$
$\frac{1}{7}$

$\frac{1}{2}$
A
B
C
D

25 [WHICH OF THE FOLLOWING FRACTIONS IS THE GREATEST?]
$\frac{1}{9}$
$\frac{1}{2}$
$\frac{1}{5}$ $\frac{1}{10}$
A
B
C
D

26 [LOOK AT THE FRACTION BARS. WHICH FRACTION BAR SHOWS ONE-SIXTH SHADED?]


## 27 [WHAT FRACTION OF THIS SHAPE IS SHADED?]



$\frac{3}{5}$
$\frac{5}{3}$
$\frac{3}{8}$
$\frac{8}{3}$
A
B
C
D

29 [WHICH FRACTION IS EQUAL TO ONE WHOLE?]
$\frac{1}{3}$
$\frac{1}{8}$
$\frac{2}{3}$
$\frac{8}{8}$
A
B
C
D

30 [A TEACHER DIVIDES A WHOLE CLASS INTO GROUPS TO WORK ON A CLASS PROJECT. EACH GROUP HAS ONE-SIXTH OF ALL THE CHILDREN IN THE CLASS. HOW MANY GROUPS ARE THERE?]
2
6
7
12
C
D

## 31 <br> [MONIQUE HAS FOUR QUARTERS, TWO DIMES, AND ONE NICKEL. HOW MUCH MONEY DOES SHE HAVE?]



| $\$ 1.25$ | $\$ 1.05$ |
| :---: | :---: |
| A | C |
| $\$ 0.75$ | $\$ 1.45$ |
| B | D | THAN JENA'S?]

 THREE ONE-DOLLAR BILLS, ONE QUARTER,THREE DIMES, AND FOUR NICKELS. HOW MUCH MONEY DOES SHE HAVE SO FAR?]


\$2.15
A
\$2.20
B
\$2.25
C
$\$ 2.30$
D

35 [WHAT IS ANOTHER WAY TO WRITE FORTY-FIVE CENTS?]
45
\$0.45
A
\$4.05
B
\$4.50
C
\$45
D

36 [JAMES HAS TWO DOLLARS AND FORTY-SIX CENTS. WHICH IS A CORRECT WAY TO WRITE THIS AMOUNT OF MONEY?]
\$2.46
A
\$2.46¢
B
\$2 and 4.6¢
\$2 and . 46¢
C
D

37 [ABOUT HOW LONG IS A DOLLAR BILL?]
1 foot
A

1 inch
B

6 feet
C

6 inches

D

$$
15+8=\square+15
$$

7 A
8
15
23
B
C
D

39 [LOOK AT THE NUMBER SENTENCE IN THE BOX. WHICH OF THE FOLLOWING HAS THE SAME VALUE AS SIX PLUS FIVE?]

$$
6+5=11
$$

A $\quad 6-5=\square$
C
$5 \times 6=\square$
B
$5+6=\square$
D
$5-6=\square$

40 [LOOK AT THE ADDITION PROBLEM IN THE BOX. WHICH OTHER PROBLEM HAS THE SAME ANSWER?]

$$
4+2+6=12
$$

$$
\begin{array}{cc}
6+4+3=\square & 4+12+6=\square \\
\text { A } & \text { C } \\
12+6+2=\square & 2+4+6=\square \\
\text { B } & \text { D }
\end{array}
$$

$15+\square=33$
A
$15+33=\square$
B
$\square-33=15$
C
$\square-15=33$
D
[MR. LEE'S CLASS COLLECTED FIVE HUNDRED THREE CANS FOR RECYCLING. MS. WEBB'S CLASS COLLECTED FOUR HUNDRED FIFTY CANS. WHICH NUMBER SENTENCE CAN BE USED TO FIND HOW MANY MORE CANS MR. LEE'S CLASS COLLECTED THAN MS. WEBB'S?]

503

$503+450=$
B
$450-503=$
C
$503-450=$
D

| Fish Caught Each $=1$ fish |  |
| :---: | :---: |
| Henry | 2atin |
| Kristen |  |
| Marisa | 590 |

4
6
10
12
A
B
C
D


5 in.


30 inches
A

45 inches
B

50 inches
C

65 inches
D


4
A
8
B

10
12
C
D


## 4 inches

A

5 inches
B

6 inches
C

7 inches
D

47 [USE YOUR RULER TO MEASURE THE SCISSORS. HOW MANY INCHES LONG ARE THE SCISSORS?]

2
4
6
A
B
C
D

## 48


2
3
6
7
A
B
C
D

49 [SEAN IS GOING ON VACATION TO VISIT HIS GRANDPARENTS. HE WILL BE GONE ONE MONTH. ABOUT HOW MANY DAYS WILL SEAN BE GONE?]

7 days
A

30 days
B

52 days
C

365 days
D
12
24
52
60
A
B
C
D

51 [A MOVIE STARTED AT ELEVEN O'CLOCK A.m. AND LASTED THREE HOURS. AT WHAT TIME DID THE MOVIE END?]

12:00 p.m.
A
2:00 p.m.
3:00 p.m.
C
D

52 [HOW MANY FACES DOES A CUBE HAVE?]

4
5
6
8
A
B
C
D

53 [LOOK AT THE PAIRS OF SHAPES. WHICH IS A PAIR OF RECTANGLES?]


A


B


C


54 [LOOK AT THE PYRAMID. WHAT SHAPE ARE THE FACES IN THIS PYRAMID?]

triangle
A
square
B
rectangle
C
kite
D



A


B


D


A


B


D



A


B


D
[THE STUDENTS IN MRS. KIM'S CLASS ARE VOTING FOR THE BOOTH THEY WANT TO HAVE AT THE FUN FAIR. SIX STUDENTS WANT FACE PAINTING. FIVE STUDENTS WANT A RELAY RACE. TWELVE STUDENTS WANT THE RING TOSS. WHICH TALLY CHART SHOWS THESE RESULTS?]


| Fun Fair |  |  |
| :--- | :--- | :--- | :--- |
| Face Painting | Relay Race |  |
| Ring Toss | folf |  |

A

| Fun Fair |  |  |
| :--- | :--- | :--- |
| Face Painting | Relay Race | Rifl |
| Ring Toss | fllf |  |

B


C


D


| Sam's set Shop |  |
| :---: | :---: |
| do | II\\| |
| $\%$ | HI |
|  | $\\|\\|\\|$ |

A

| Sam's Pet Shop |  |
| :---: | :---: |
| \% | \||| |
| 禺莫 | H |
| (4) | 11 |

B


C


D

60 [LOOK AT THE TALLY CHART AT THE TOP OF THE PAGE. THE TALLY CHART SHOWS THE NUMBER OF CHERRIES EACH STUDENT ATE. WHICH GRAPH MATCHES THE TALLY MARKS IN THE CHART?]

| Cherries Eaten |  |
| :--- | :--- |
| Sue | finfll |
| Liz | dfll |
| Joe | ffllll |




| Favorite Juice |  |
| :--- | :--- |
| Apple | IIII |
| Orange | IH I |
| Grape | HI |

A

| Favorite Juice |  |  |
| :--- | :--- | :---: |
| Apple | IHI |  |
| Orange | IIII |  |
| Grape | IH I I |  |

B

| Favorite Juice |  |
| :--- | :--- |
| Apple | I |
| Orange | III |
| Grape | III |

C

| Favorite Juice |  |
| :--- | :--- |
| Apple | NH |
| Orange | IH I I |
| Grape | IIII |

D

| Student Heights |  |
| :--- | :---: |
| Student | Height <br> (in inches) |
| Sara | 44 |
| James | 42 |
| Su Lin | 49 |
| Randy | 46 |
| Cara | 50 |

8 inches

A

12 inches

B

42 inches
C

50 inches
D

## Sunday - $65^{\circ}$

Monday - $68^{\circ}$
Tuesday - $75^{\circ}$
Friday - $64^{\circ}$
Saturday - $63^{\circ}$
$12^{\circ}$
$20^{\circ}$
$63^{\circ}$
$68^{\circ}$
A
B
C
D ON WEDNESDAY THAN ON TUESDAY? MARK YOUR ANSWER.]

Piano Practice Times

| Day | Minutes |
| :---: | :---: |
| Monday | 26 |
| Tuesday | 24 |
| Wednesday | 30 |
| Thursday | 35 |
| Friday | 15 |

6
5
4
2
A
B
C
D

| Question Number | Correct Answer | Standard | Year of Test |
| :---: | :---: | :---: | :---: |
| 1 | A | 2NS1.1 | 2004 |
| 2 | C | 2NS1.1 | 2005 |
| 3 | $B$ | 2NS1.1 | 2006 |
| 4 | $B$ | 2NS1.2 | 2004 |
| 5 | D | 2NS1.2 | 2005 |
| 6 | A | 2NS1.3 | 2003 |
| 7 | C | 2NS1.3 | 2004 |
| 8 | A | 2NS1.3 | 2005 |
| 9 | A | 2NS1.3 | 2006 |
| 10 | C | 2NS2.1 | 2003 |
| 11 | $B$ | 2NS2.1 | 2004 |
| 12 | D | 2NS2.2 | 2003 |
| 13 | D | 2NS2.2 | 2004 |
| 14 | $B$ | 2NS2.2 | 2005 |
| 15 | D | 2NS2.2 | 2006 |
| 16 | C | 2NS3.1 | 2004 |
| 17 | $B$ | 2NS3.1 | 2005 |
| 18 | C | 2NS3.2 | 2003 |
| 19 | A | 2NS3.2 | 2005 |
| 20 | $B$ | 2NS3.2 | 2006 |
| 21 | D | 2NS3.3 | 2003 |
| 22 | $B$ | 2NS3.3 | 2004 |
| 23 | C | 2NS3.3 | 2006 |
| 24 | A | 2NS4.1 | 2003 |
| 25 | $B$ | 2NS4.1 | 2004 |
| 26 | A | 2NS4.1 | 2005 |
| 27 | $B$ | 2NS4.2 | 2003 |
| 28 | C | 2NS4.2 | 2005 |
| 29 | D | 2NS4.3 | 2003 |
| 30 | $B$ | 2NS4.3 | 2005 |
| 31 | A | 2NS5.1 | 2003 |
| 32 | $B$ | 2NS5.1 | 2004 |
| 33 | $B$ | 2NS5.1 | 2006 |
| 34 | D | 2NS5.2 | 2003 |
| 35 | A | 2NS5.2 | 2005 |
| 36 | A | 2NS5.2 | 2006 |
| 37 | D | 2NS6.1 | 2004 |
| 38 | $B$ | 2AF1.1 | 2003 |
| 39 | $B$ | 2AF1.1 | 2004 |
| 40 | D | 2AF1.1 | 2005 |
| 41 | A | 2AF1.2 | 2003 |
| 42 | D | 2AF1.2 | 2005 |
| 43 | C | 2AF1.3 | 2004 |


| Question Number | Correct Answer | Standard | Year of Test |
| :---: | :---: | :---: | :---: |
| 44 | B | 2MG1.1 | 2006 |
| 45 | A | 2MG1.2 | 2004 |
| 46 | $B$ | 2MG1.3 | 2004 |
| 47 | B | 2MG1.3 | 2006 |
| 48 | C | 2MG1.3 | 2006 |
| 49 | $B$ | 2MG1.4 | 2003 |
| 50 | D | 2MG1.4 | 2005 |
| 51 | C | 2MG1.5 | 2005 |
| 52 | C | 2MG2.1 | 2003 |
| 53 | B | 2MG2.1 | 2003 |
| 54 | A | 2MG2.1 | 2006 |
| 55 | A | 2MG2.2 | 2004 |
| 56 | A | 2MG2.2 | 2006 |
| 57 | D | 2MG2.2 | 2006 |
| 58 | D | 2PS1.1 | 2005 |
| 59 | D | 2PS1.1 | 2006 |
| 60 | D | 2PS1.2 | 2003 |
| 61 | D | 2PS1.2 | 2006 |
| 62 | A | 2PS1.3 | 2005 |
| 63 | A | 2PS1.3 | 2006 |
| 64 | A | 2PS1.4 | 2004 |

## basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

# ANNUAL NATIONAL ASSESSMENT 

## GRADE 2

## MATHEMATICS

TERM 1: 2012 EXEMPLAR

## GUIDELINES FOR THE USE OF ANA EXEMPLARS

## 1. General overview

The Annual National Assessment (ANA) is a summative assessment of the knowledge and skills that learners are expected to have developed by the end of each of the Grades 1 to 6 and 9 . To support their school-based assessments and also ensure that learners gain the necessary confidence to participate with success in external assessments, panels of educators and subject specialists developed exemplar test questions that teachers can use in their Language and Mathematics lessons. The exemplar test questions were developed from curriculum work that covers Terms 1,2 and 3 of the school year and a complete ANA model test for each grade has been provided. The exemplars, which include the ANA model test, supplement the school-based assessments that learners must undergo on a continuous basis and do not replace them.

## 2. The structure of exemplar questions

The exemplars are designed to illustrate different techniques or styles of assessing the same skills and/or knowledge. For instance, some content knowledge or a skill can be assessed through a multiple-choice question (where learners select the best answer from the given options) or a statement (that requires learners to write a short answer or a paragraph) or other types of questions (asking learners to join given words/statements with lines, to complete given sentences or patterns, to show their answers with drawings or sketches, etc.). So, if teachers and learners find a number of exemplar questions that are structured differently but are asking the same thing, they should understand that this is deliberate and learners must respond to all the exemplar questions. Exposure to a wide variety of questioning techniques or styles gives learners the necessary confidence to confront tests.

## 3. Links with other learning and teaching resource materials

For the necessary integration, some of the exemplar texts and questions have been deliberately linked to the grade-relevant workbooks. The exemplars have also been aligned with the requirements of the National Curriculum Statement Grades R to 12 (NCS), the provisions of the Curriculum and Assessment Policy Statements (CAPS) for the relevant grades and the National Protocol for Assessment. Together these documents, plus any others that a school may provide, make up a rich resource base to help teachers in planning lessons and conducting formal assessment (assessment of learning).

## 4. How to use the exemplars

While the exemplars for a grade and a subject have been compiled into one comprehensive set, the teacher does not have to give the whole set to the learners to respond to in one sitting. The teacher should select exemplar questions that are relevant to the planned lesson at any given time. Carefully selected individual exemplar test questions, or a manageable group of questions, can be used at different stages of the teaching and learning process as follows:
4.1 At the beginning of a lesson as a diagnostic test to identify learner strengths and weaknesses. The diagnosis must lead to prompt feedback to learners and the development of appropriate lessons that address the identified weaknesses and consolidate the strengths. The diagnostic test could be given as homework to save time for instruction in class.
4.2 During the lesson as short formative tests to assess whether learners are developing the intended knowledge and skills as the lesson progresses and ensure that no learner is left behind.
4.3 At the completion of a lesson or series of lessons as a summative test to assess if the learners have gained adequate understanding and can apply the knowledge and skills acquired in the completed lesson(s). Feedback to learners must then be given promptly while the teacher decides on whether there are areas of the lesson(s) that need to be revisited to consolidate particular knowledge and skills.
4.4 At all stages to expose learners to different techniques of assessing or questioning, e.g. how to answer multiple-choice (MC) questions, open-ended (OE) or free-response (FR) questions, shortanswer questions, etc.

While diagnostic and formative tests may be shorter in terms of the number of questions included, the summative test will include relatively more questions up to a full test depending on the work that has been covered at a particular point in time. The important thing is to ensure that learners eventually get sufficient practice in responding to full tests of the type of the ANA model test.

## 5. Memoranda or answering guidelines

A typical example of the expected response (memorandum) has been given for each exemplar test question and for the ANA model test. Teachers must bear in mind that the memoranda can in no way be exhaustive. Memoranda can only provide broad principles of expected responses and teachers must interrogate and reward acceptable options and variations of the acceptable response(s) given by learners.

## 6. Curriculum coverage

It is extremely critical that the curriculum must be covered in full in every class. The exemplars for each grade and subject do not represent the entire curriculum. They merely sample important knowledge and skills and only for work that covers terms 1, 2 and 3 of the school year. The pacing of work to be covered according to the school terms is specified in the relevant CAPS documents.

## 7. Conclusion

The goal of the Department is to improve the levels and quality of learner performance in the critical foundational skills of literacy and numeracy. ANA is one instrument the Department uses to monitor whether learner performance is improving, staying the same or declining. Districts and schools are expected to support teachers and provide necessary resources to improve the effectiveness of teaching and learning in the schools. By using the ANA exemplars as part of their teaching resources, teachers will help learners become familiar with different styles and techniques of assessing. With proper use the exemplars should help learners acquire appropriate knowledge and develop relevant skills to learn effectively and perform better in subsequent ANA tests.

## NUMBERS, OPERATI ONS AND RELATI ONSH PS

1. Look at $t$ he pict ure and answer $t$ he quest ions $t$ hat $f$ ollow.

a. Count $t$ he apples and writ e $t$ he cor rect number symbol. $\qquad$
b. How many groups of f ive (5) apples ar e t her e $\qquad$
C. How many groups of $t$ en (10) apples ar e $t$ her e?
$\qquad$
d. How many groups of $t$ wo (2) apples are $t$ her e?
$\qquad$
2. Fill in the missing number s .

20, $\qquad$ ,

22 $\qquad$
$\qquad$ ,25
3. Complet et he following number pat t er ns.
a. $\qquad$ ; 16 ; 18 18 ; $\qquad$
$\qquad$ 24.
b. 22 ; _ ; $\quad 19$; $\quad 17$.
4.


Pack $t$ he beans shown in $t$ he pict ure int o 4 basket s so that $t$ here is $t$ he same number in each basket.

How many beans will you pack int o each basket?
5. Writ e downthe next number in each sequence.
a. 5 ; 10; 15; $\qquad$
b. 4 ; 6 ; 8 ; $\qquad$
6.
a. $\qquad$ 10; 11;12
b. ____- ; 20; 21; 22
c.; 15; 20;25

d.
; 20; 22; ..... 24
7. Writ e downt he number name of each of $t$ he following number symbol
a. 13
b 20 $\qquad$
c. 23
8. Draw arrows to mat ch the number symbols wit hthe number names.

You are given an example.

a. 22
eight
b. 18
t welve
c. 8
t went y-t wo
d. 12
eight een
9. Writ e the number symbols of $t$ he $f$ ollowing number names.
a. t went yone
b. nine
c. thirt een
d. seven
9. Writ e the whole number $t$ hat comes bet ween $t$ he given number
a.

| 19 |  | 21 |
| :--- | :--- | :--- |
| 23 |  | 25 |

11. Wr it et he wor ds 'is smaller $\mathbf{t}$ han', 'is great er $\mathbf{t}$ han' and 'is equal to' bet ween $t$ he $f$ ollowing pair $s$ of numbers $t$ o make cor rect sent ences.
a. 22 $\qquad$ 12
b. 12 12
c. 11 21
12. Writ ethe number sfrom the smallest tothe biggest.
a. 9
25
7
6
13
b. 6
17
19
8
12
c. $\quad 22$
20
12
18
24
13. Writ et he number sfrom the biggest tothe smallest.
a. 11
23
18
10
15
b. $\quad 15$
20
5
25
10
c. $\quad-\quad 13$
18
15
21
12
$\qquad$

14. Writ $\mathrm{e} t$ he value of each of t he under lined digit s .
a. $\underline{\underline{2} 1}$
b. $1 \underline{8}$ $\qquad$
15. a. What does $t$ he digit 2 represent in $t$ he number 24 ? $\qquad$
b.

What does $t$ he digit 4 represent in the number 24 ? $\qquad$
c. 1 t en and 9 ones make t he number $\qquad$ _.
16. Writ e the correct answer in $t$ he box by breaking down or building up $t$ he given number.
a. $22=\square+2$
b. $17=10$
$+\quad \square$
17. Fill in $t$ he empt $y$ boxes using $t$ ens and unit $s t o$ complet $e$ $t$ he sum.
a. $13=\square+\square$
b. $25=\square$
$+\square$
c.
$5=$ $\square$
$\square$
18. Add $t$ he following number s :
a. adding on $f$ rom $t$ he bigger number

$$
5+13=
$$

b. using $t$ he near doubles

$$
6+5=
$$

c. filling up a ten

$$
8+7=
$$

$\qquad$
19. Double the following numbers.
a. 4
b. 9
c. 10
20. Double each of $t$ he $f$ ollowing numbers by writ ing an addit ion number sent ence.
a. $6: \square$

b. 8 :

a. Which number is 10 more t han 9 $\qquad$ .
b. Which number is 10 more $t$ han 10 $\qquad$ .
c. Which number is 10 more $t$ han 17 $\qquad$ .
d. Which number is 5 more $t$ han 11 $\qquad$

## PROBLEM-SOLVING

1. a. How much is 18 more $t$ han 11 $\qquad$ .
b. If you add 7 t o a cert ain number t he answer is 14.What is $t$ he ot her number? $t$ he ot her number is
$\qquad$ .
c. Mary has 19 marbles. She has 5 fewer marbles $t$ han John. How many marbles does John have?
2. 

a.

Share 12 ice cream cones equally bet ween 2 $\mathrm{f} r$ iends.

b.

If you share 11 pencils equally bet ween Mary and Anne, Mar y will get $\qquad$ pencils and
Anne will get $\qquad$ pencils and $\qquad$ will remain
c.

How many legs do 4 hor ses have?
d.

Lisa plant ed 5 peach $t$ rees in 4 rows. How many peach $t r$ ees did she plant alt oget her ?

## CALCULATIONS INVOLVING MONEY

1. Two 5 c coins have t he same value as one $\qquad$ coin.

Two R10 not es have $t$ he same value as one $\qquad$ not e.

The $t$ ot al of $10 c+10 c+10 c$ is $\qquad$ .

Complet e: R10 + R5 = $\qquad$ .

Complet ethe following $t$ able:

| Price of <br> art icle | Paid wit h | Change |
| :--- | :--- | :--- |
| 40 c | 50 c |  |
| 35 c | 40 c |  |
| R1 | R2 |  |

2. a. Suzy has 20c. Her mot her gives her 30c. How much money does Suzy have now? Suzy has $\qquad$ cent s.
b. R1 shared equally bet ween 2 girls means each gir 1 get s $\qquad$ -.
c. $\quad 40 \mathrm{c}$ shared equally bet ween 4 means each girl get s $\qquad$ .
d. The price of lbooks is R2. What will $t$ he price of 6 books be? $\qquad$ .

## PATTERNS, FUNCTIONS AND ALGEBRA

1. a. Draw the next shapes in $t$ he pat $t$ er $n$.

b. Draw $t$ he next 3 diagrams in $t$ he pat $t$ er n.

c. Copy t he following pat t er n .

d. Draw $t$ he next shapes in $t$ he 'growing' pat $t$ er $n$.
$\bigcirc \triangle \square \square \bigcirc$ $\bigcirc \triangle \square \triangle \square \square$ $\square$ OO $\bigcirc \triangle \triangle \triangle$
2. Complet et he t ables
a.

|  | 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| ${ }^{*} 5$ | 5 |  |  | 20 |  |  |

b.

| $*$ | 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| ${ }^{*} 2$ | 2 | 4 |  | 28 |  |  |

3. 

Writ e down $t$ he next 2 numbers in each pat $t$ er $n$.
a. 20 ; 15 ; 10 ; $\qquad$
$\qquad$ .
b. 18 ; 16 ; 14 ; $\qquad$
$\qquad$ .

## SPACE AND SHAPE

1. Draw a line bet ween $t$ he pict ure of each art icle and it $s$ mat ching shape.

2. Dr aw a circle ar ound $t$ he object $t$ hat can slide.


Pict ure


Wheel
3. In each of $t$ he following groups of $3-\mathrm{D}$ obj ect s , mark t he largest obj ect wit $h$ a cross (X) and markthe smallest obj ect wit $h$ a $t$ ick $(\checkmark)$.
a.


C.

4. a. How many of $t$ he 10 obj ect $s$ in quest ion $3 a, 3 b$ and $3 c$ have only flat faces?
b. How many of $t$ he 10 object $s$ in quest ion $3 \mathrm{a}, 3 \mathrm{~b}$ and 3 c have only round faces?
c. Can $t$ he object $s$ in quest ion3(c) slide or roll?

## MEASUREMENT (TI ME AND LENG TH)

1. 

a. There are $\qquad$ days in a week
b. The names of $t$ he days of $t$ he week are Sunday,
$\qquad$ ,

c. Monday, $\qquad$ ,Wednesday, $\qquad$ .
d. $\qquad$ , Thur sday, $\qquad$ ,

Sat urday.
2. How many days are there bet ween
a. Monday and Friday? $\qquad$ .
b. Sunday and Thur sday $\qquad$ .
3. Writ e down t he correct t ime under each clock.

a.
b.
C.
4. Bongi lef $t$ for school at 7 o'clock in $t$ he mor ning. She came back home at 3 o'clock in $t$ he af $t$ er noon. How many hour s was she gone?
5. Look at $t$ he lengt hs of $t$ he 4 lines $t$ o see how long each of $t$ hem is and $t$ hen answer $t$ he quest ions wit hout measuring $t$ he lines.

Line A $\qquad$
Line B $\qquad$
Line C $\qquad$
Line D $\qquad$
a. Line $\qquad$ is longest .
b. Line $\qquad$ is shor t est and line $\qquad$ .
c. Line $C$ is longer $t$ han line $\qquad$ .
d. Line $A$ is short er $t$ han line $\qquad$ but longer $t$ han line
$\qquad$ and $\qquad$ _.
e. Arrange $t$ he lines from $t$ he longest $t$ ot he short est by writ ins down $t$ he let $t$ ers $t$ hat represent $t$ hem.
$f$. Ar range $t$ he lines $f r o m$ he shor $t$ est $t$ ot he longest by writ ing down $t$ he let $t$ ersthat represent $t$ hem.

## DATA HANDLI NG

Mat ome asked 18 boys in his class about $t$ heir f avour it e TV programmes. He list ed t heir answers by writ ing:

Sfor sport, Nf or news, D for drama and Rfor $r$ eligion.

| $S$ | $N$ | $D$ | $D$ | $R$ | $N$ | $R$ | $D$ | $S$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $R$ | $S$ | $N$ | $R$ | $S$ | $S$ | $D$ | $S$ | $R$ |

How many boys chose $t$ he following as $t$ heir $f$ avour it $e$ TV programme:
a. Sport
b. Drama
c. Religion
d. News

Use $t$ he inf or mat ion in Quest ion 1 to draw a pict ograph, and $t$ hen complet e the sent ences $t$ hat $f$ ollow.

Key: Use ( $\stackrel{\ominus}{X}_{(\lambda)}$ t o represent 1 boy.
FAVOURITE TV PROGRAMME

2.
a. Most of $t$ he boys chos $\qquad$ .
b. The least number of boys chose
$\qquad$
c. The dif $f$ er ence bet ween $t$ he number of boys who chose sport and $t$ he number of boys who chose news is $\qquad$ .
basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

# ANNUAL NATIONAL ASSESSMENT 2013 

## GRADE 2

## MATHEMATICS EXEMPLAR QUESTIONS

## GUIDELINES FOR THE USE OF ANA EXEMPLAR QUESTIONS

## 1. How to use the exemplar questions

While the exemplar questions for a grade and a subject have been compiled into one comprehensive set, the learner does not have to respond to the whole set in one sitting. The teacher should select exemplar questions that are relevant to the planned lesson at any given time. Carefully selected individual exemplar questions, or a manageable group of questions, can be used at different stages of the teaching and learning process as follows:
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1.2 During the lesson as short formative tests to assess whether learners are developing the intended knowledge and skills as the lesson progresses and ensure that no learner is left behind.
1.3 At the completion of a lesson or series of lessons as a summative test to assess if the learners have gained adequate understanding and can apply the knowledge and skills acquired in the completed lesson(s). Feedback to learners must be given promptly while the teacher decides on whether there are areas of the lesson(s) that need to be revisited to consolidate particular knowledge and skills.
1.4 At all stages to expose learners to different techniques of assessing or questioning, e.g. how to answer multiple-choice (MC) questions, open-ended (OE) or free-response (FR) questions, short-answer questions, etc.

While diagnostic and formative tests may be shorter in terms of the number of questions included, the summative test will include relatively more questions, depending on the work that has been covered at a particular point in time. It is important to ensure that learners eventually get sufficient practice in responding to the exemplar questions.

## 2. Memoranda or marking guidelines

A typical example of the expected responses (marking guidelines) has been given for each exemplar question and for the ANA model test. Teachers must bear in mind that the marking guidelines can in no way be exhaustive. They can only provide broad principles of expected responses and teachers must interrogate and reward acceptable options and variations of the acceptable response(s) given by learners.

## 3. Curriculum coverage

It is extremely critical that the curriculum must be covered in full in every class. The exemplar questions for each grade and subject do not represent the entire curriculum. They merely sample important knowledge and skills and covers work relating to terms 1,2 and 3 of the school year.

1．1 Complete e t he＂r peat ing＂pat t er n of shapes．


Draw $t$ he next shapes in $t$ he pat $t$ er $n$ ．


1．3 Circle $t$ he let $t$ er of $t$ he correct shape $t$ hat comes next in $t$ he pat $t$ er n．

$A \quad D$
B 命
C $\quad \square$
D 穵命

2．1 Draw a line to link the 3－D object name with t he cor rect pict ur．

2.2 Mark the shapes which only have st $r$ aight sides with a " $\checkmark$ " and $t$ hose wit $h$ cur ved sides wit $h$ a " $x$ ".

2.3 Tick a shape which has only st $r$ aight edges.

3.1 Wr it e t he number symbol for one hundred and sixt y-nine.
$\qquad$
3.2 Draw lines tomat ch $t$ he number symbol with t he correct number name.

| 3.2 .1 | 49 | eight een |
| :--- | :--- | :--- |
| 3.2 .2 | 55 | sevent $y$ - $f$ our |
| 3.2 .3 | 63 | f if $t$ y f ive |
| 3.2 .4 | 74 | f or t y-nine |
| 3.2 .5 | 18 | sixt y $t$ hr ee |

3.3 Choose a number symbol from $t$ he box below and $t$ hen write it down next tothe correct number name.

| 101 | 100 | 110 |
| :--- | :--- | :--- |

3.3.1 One hundr ed and one $\qquad$
3.3.2 One hundr ed $\qquad$
3.3.3 One hundr ed and $t$ en $\qquad$
4. Writ et he number name f or 47.
$\qquad$
5.1 Writ et he $t$ ime shown on $t$ he clock $f$ ace below.


The $t$ ime is $\qquad$ .
5.2 Dr aw $t$ he minut $e$-hand and $t$ he hour-hand on each of $t$ he following clock $f$ aces $t o$ show $t$ he indicat ed $t$ ime.


6 o'clock


Half past 4
5.3 Bongie lef $t$ for school at 7 o'clock in $t$ he morning. She ret urned home at 3 o'clock. How many hours was she away from home?

She was $\qquad$ hours away from home.
6.1 Circle $t$ he let $t$ er of $t$ he cor $r$ ect answer.

What $f r a c t$ ion of $t$ he shape is shaded in?


A 1 third
B 1 half
C 1 quart er

D 1 fifth
6.2 Answer t he f ollowing quest ion.


The above shape has been divided int o $\qquad$ equal part s and a $\qquad$ has been shaded.
6.3 Colour $t$ he indicat ed $f$ ract ional part of each $f$ igure.

one t hird


4 quart ers
7.1 Writ et he given number sfrom the great est $t$ ot he smallest :
131
129
152
117
162
7.2 Arrange $t$ he numbers from the smallest $t$ ot he great est.
100
110
95
90
105
7.2.1

51
15
105
115
5
7.2.2
7.3 Circle $t$ he let $t$ er of $t$ he cor $r$ ect answer. smallest ?
A $64 \quad 12$
$40 \quad 21$
80
B 80
64
40
21
12
C 21
40
80
64
12
$\begin{array}{llllll}\text { D } & 80 & 64 & 21 & 12 & 40\end{array}$ Which numbers are ar ranged from the great est $t$ o the
8.1 $69-41=$

A 28

B 82

C $\quad 72$

D $\quad 78$
8.2 Fill in $t$ he missing number $t$ o complet e the repeat ed addit ion sum.
8.2.1 $27+2+$ $\qquad$ $+$ $\qquad$ $=33$
8.2.2 $31+$ $\qquad$ $+$ $\qquad$ $+$ $\qquad$ $=43$
8.2.3 $16+10$ $\qquad$ $+$ $\qquad$ $=$ $\qquad$
8.2.4 $19+6+$ $\qquad$ $+$ $\qquad$ $=$ $\qquad$
8.3 If $52-9=43 \mathrm{t}$ hen $52-43=$ $\qquad$
9.1 Look at $t$ he pict ure and $t$ hen $t$ ick " $\checkmark$ " $t$ he cor $r$ ect answer in t he block below.


The t yre can | slide. | r oll. |
| :--- | :--- |
|  |  |

9.2 Circle the obj ect $t$ hat can slide.

pict ure

wheel
9.3

Draw any obj ect $t$ hat can roll and an obj ect $t$ hat can slide.

| Obj ect t hat can roll. | Obj ect t hat can slide. |
| :--- | :--- |
|  |  |

10.1 Draw a line of symmet $r y$ in $t$ he given shape.

10.2

Draw $t$ he ot her part of $t$ he $f$ igure $t$ o make a symmet $r$ ical pict ure.


Mark $t$ he shape wit $h t h e ~ c o r r e c t ~ l i n e ~ o f ~ s y m m e t ~ r y ~$ wit h a " $\checkmark$ ".

11.1 Complet e each of $t$ he $f$ ollowing number pat $t$ erns:
11.1.1 66; 63; 60; $\qquad$ ; $\qquad$ ; $\qquad$ .
11.1.2 141; 145; 149; $\qquad$ ; $\qquad$ ;
11.2 Fill in the missing number $s$.
11.2.1 162; $\qquad$ ; $\qquad$ ; 168, 170; $\qquad$ .
11.2.2 152; 155; $\qquad$ ; $\qquad$ ; 164; $\qquad$ .
12.1 The value of $t$ he under lined digit in $\underline{8} 1$ is $\qquad$
12.2 In t he number 73
12.2.1 $t$ he value of $t$ he digit 7 is $\qquad$
12.2.2 $t$ he value of $t$ he digit 3 is $\qquad$
13.1 Double and halve 29.
13.1.1 Double $29=$

13.1.2 Half of $29=$ $\qquad$

13.2.1 Halve $t$ he given number.

| Number | Number halved |
| :---: | :---: |
| 24 |  |
| 16 |  |
| 12 |  |

13.2.2 Double $t$ he given number .

| Number | Number doubled |
| :---: | :---: |
| 18 |  |
| 10 |  |
| 14 |  |

13.3 Double each of $t$ he $f$ ollowing number s by writ ing an addit ion number sent ence.
13.3.1 6:

$\square$
13.3.2
8: $\square$ $=$ $\square$ $+$ $\square$
14.1 Fill in "is smaller $t$ han" or "is great er $t$ han" bet ween $t$ he number stomake a correct sent ence.

12 $\qquad$ 21
14.2 Fill in $=,>$, < bet ween each pair of number stomake $t$ he st at ement s correct.
14.2.1 122 $\qquad$ 102
14.2.2 105 $\qquad$ 105
14.2.3 101 $\qquad$ 110
14.3 Circle $t$ he cor rect symbol $t$ o make $t$ he st at ement cor rect .
14.3.1 $5+5>=<23$
14.3.2 $47>=<74$
15.1 Complet et he f low diagram:

15.2 Fill in $t$ he missing number $s$

| car s | 1 | 3 | 5 |  | 9 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| wheels | 4 |  | 20 | 24 |  |

15.3 Writ et he correct answer.
15.3.1 $2 \times 5=$
15.3.2 $10 \times 4=$
16.1 Fill in $t$ he cor rect oper at ion sign $t$ o make $t$ he number sent ence $t r u e$.

34 $\square$ $10=44$
16.2 Circle $t$ he cor $r$ ect oper at ion sign $t$ o make $t$ he number sent ence $t r u e$.

23 $\square$ $10=13$

### 17.1 Circle $t$ he heaviest it em.


17.2 Ar range $t$ he given it ems from $t$ he light est $t$ ot he heaviest.


| It em | Weight |
| :--- | :--- |
|  |  |
|  |  |
|  |  |

17.3 Mark $t$ he block wit $h t$ he cor $r$ ect answer with a " $X$ ".

A brick is

| heavier | light er |
| :--- | :--- | t han my pencil.

18.1 Bongani and his $f$ iends must pack 36 apples in packs of 4 in a packet. How many packet s can be filled and how many apples will be lef $t$ ?

18.2 Teacher has 38 pencils and she shares it equally bet ween 4 lear ners. How many pencils did each lear ner get and how many pencils remain.

19.1 Thr ee cups of milk are needed t o make 1 milkshake. How many cups of milk are needed to make 4 milkshakes?


4 milkshakes will need $\qquad$ cups of milk.
19.2 Mot her bakes 4 cakes and she uses $t$ hr ee cups of $f$ lour per cake. How many cups of $f$ lour did she use $t$ o bake $t$ he cakes?

20.1 Read $t$ he price list below and answer $t$ he quest ion $t$ hat f ollows.


Susan buys a ball and an ice cream. She pays wit $h$ a R20,00 banknot e. How much change should she get ?
$\square$

R $\qquad$
20.2 How many ice creams can Nomsa buy wit h a R20?


Nomsa can buy $\qquad$ ice creams.
20.3 Thandi want sto buy 2 balls but she only has a R20. How much money does she need $f$ or $t$ he balls?


Thandi needs R $\qquad$ and she is $R$ short.
21.1 How many squar es are $t$ here in $t$ he diagram below?


Number of squares = $\qquad$
21.2 Count $t$ he squar es in $t$ he diagr am and writ e $t$ he number name.


The number name is $\qquad$
21.3 Look at t he diagr am below and complet e t he sent ence.


There are $\qquad$ small squar es and $\qquad$ big square.
22.1 How many legs do 9 cows have?


Nine cows have $\qquad$ legs.
22.2 There are 4 boxes of crayons in our classroom. Each box has 9 crayons. How many crayons are there alt oget her?
$\square$

There are $\qquad$ cr ayons.
23.1 Use $t$ he graph $t$ o answer $t$ he quest ions $t$ hat $f$ ollow.

| Books read by 5 lear ners |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of books | 10 | $\square$ |  |  |  |  |
|  | 9 | $\square$ |  |  |  |  |
|  | 8 | $\square \square$ | $\square$ |  |  |  |
|  | 7 | $\square$ | $\square$ |  |  |  |
|  | 6 | $\square \square$ | $\square$ | $\square$ |  |  |
|  | 5 | $\square$ | $\square$ | $\square$ |  | $\square$ |
|  | 4 | $\square$ | $\square$ | $\square$ |  | $\square$ |
|  | 3 | $\square$ | $\square$ | $\square \square$ |  | $\square$ |
|  | 2 | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
|  | 1 | $\square \square$ | $\square \square$ | $\square$ | $\square$ | $\square$ |
|  |  | Pet er | Amy | J ohn | Tshepo | Pam |

23.1.1 Who read $t$ he most books? $\qquad$
23.1.2 How many books did Amy and Pam read alt oget her?
23.2.1 Mat ome asks 18 boys in his class about $t$ heir $f$ avour it $e$ TV program. He records $t$ he inf or mat ion as $f$ ollow: Sfor sport, Nf or news, D f or drama and Rf or $r$ eligion.

| S | N | D | D | R | N | R | D | S |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| R | S | N | R | S | S | D | S | R |

How many boys choose the following TV programs as $t$ heir $f$ avour it $e$ ?
23.2.1 Sport? $\qquad$
23.2.2 Drama? $\qquad$
23.2.3 Religion? $\qquad$
23.2.4 News? $\qquad$
23.2.5 Use t he inf or mat ion above and draw a pict ogr aph. Key: Use ( ${ }^{\circ}$ ) t o represent 1 boy.

FAVOURI TE TV PROGRAMS

| Number <br> of boys |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Sport | Drama | Religion | News |
|  | TV-PROGRAM |  |  |  |

## Assessment For The California Mathematics Standards

## Grade 2

## Introduction: Summary of Goals

## GRADE TWO

By the end of grade two, students understand place value and number relationships in addition and subtraction and they use simple concepts of multiplication. They measure quantities with appropriate units. They classify shapes and see relationships among them by paying attention to their geometric attributes. They collect and analyze data and verify the answers.

## Assessment For The California Mathematics Standards Grade 2

## Number Sense

NS 1.1
a. Circle the number: three hundred four

## 340

34
3004
304
b. Circle the number: two hundred eleven
121
221
211
212
c. Circle the number: five hundred fourteen
540
514
541
515
d. Write these numbers:

1. nine hundred two
2. six hundred twelve
3. three hundred thirty
4. seven hundred eighty-four

Write the expanded notation for these numbers:
a. $564=++$
b. $720=\square+\square$
c. $902=\square+$

## Assessment For The California Mathematics Standards

## Grade 2

Fill in the missing symbol $>$ or $\leqslant$ or $=$
a. 207
92
d. 265 $\qquad$ 843
b. 139
257
e.
412 $\qquad$ 261
c. 347 $\qquad$ $300+40+7$

Ns 2.1 a. Make two addition and two subtraction number sentences with these numbers:
4


10 $\qquad$
$\qquad$
$\qquad$

$\qquad$
$\qquad$ $=$ $\qquad$
b. Here is how James worked a subtraction problem. Use addition to check to see if he worked the problem correctly. You will need to write the addition problem.

$$
\begin{array}{r}
26 \\
-\quad 12 \\
\hline 15
\end{array}
$$

## Assessment For The California Mathematics Standards Grade 2

N5 2.2 | a. 34 | b. 343 | c. 457 | d. 607 |
| ---: | ---: | ---: | ---: | ---: |
| $+\underline{23}$ | +265 |  |  |
| $+\underline{324}$ | $+\underline{299}$ |  |  |

Solve these problems in your head and write the answers.
a. $50+30=$
d. $50+40=$ $\qquad$
b. $80-20=$
e. $60+5=$
c. $32+4=\square$
f. $70-1=$ $\qquad$

## Assessment For The California Mathematics Standards <br> Grade 2

NS 3.1
a. 1. Draw a picture of a classroom that has 5 desks across the front of the room and 4 desks in each row.

2. How many chairs are in the classroom? $\qquad$
b. Figure out and write the numbers you say when you count by 4 s .
$4 \quad 8$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Assessment For The California Mathematics Standards Grade 2

Ns 3.2 Molly had 20 pieces of candy. She gave two pieces to her sister.
a. How many did she have left? $\qquad$
b. If she gave away 2 pieces each to 4 more people, how many pieces would she have left? $\qquad$
ws 3.3 Write the answers:
a. $5 \times 3=$
b. $2 \times 7=$ $\qquad$ c. $5 \times 8=$ $\qquad$
d. $10 \times 6=$ $\qquad$ e. $2 \times 8=$
f. $10 \times 4=$ $\qquad$

## Assessment For The California Mathematics Standards

## Grade 2

Ns 4.1 Fill in the $\operatorname{sign}>$ or $<$
a.

$\frac{1}{8}$
b. $\frac{1}{9}$

$\frac{1}{7}$

## Assessment For The California Mathematics Standards Grade 2

NS 4.2
a. Write the fraction for the shaded area of this picture:


$$
=
$$

b. How many faces out of the group are smiling? Write a fraction to show this.

a. Fill in missing numeral
$1=\overline{4}$ $\underline{5}=1$
b. If a pizza is divided into thirds, how many pieces make one whole pizza? $\qquad$

Ns 5.1 Lee has a bag of nickels and dimes.
What is a way that Lee could pay the exact amount for a box of pencils that costs 35 cents?

# Assessment For The California Mathematics Standards 

## Grade 2

NS 5.2
a. Using a dollar sign (\$) and a decimal point:

1. Write 2 dollars and 57 cents: $\qquad$
2. Write 9 dollars and 9 cents: $\qquad$
3. Write 32 cents: $\qquad$
b. Write $\$ .32$ a different way: $\qquad$

Ns 6.1 About how long is a pencil? Circle the best answer.

## 5 feet

5 inches
5 yards

## Assessment For The California Mathematics Standards Grade 2

## Algebra and Functions

AF 1.1 What is the easiest way to find $27+69+1$ ? $\qquad$
A) Add 27 and 1 first, then add 69 to the sum.
B) Add 69 and 1 first, then add 27 to the sum.
C) Add 69 and 27 first, then add 1 to the sum.
D) I don't know

Af 1.2 a. Three classes at your school will see a play together.
Room A has 18 students.
Room B has 34 students.
Room $C$ has 19 students.
Room D has 29 students.
Write the number sentence you would use to find the total number of chairs needed if rooms $A, B$, and $C$ go to the play.
b. Jan is 12 years old. Her sister is 5 years younger than Jan. How old is Jan's sister? Write a number sentence that will give the answer to the problem.

## Assessment For The California Mathematics Standards

## Grade 2

AF 1.3 This table shows how some children get to school.

|  | Take Bus | Walk to <br> School |
| :--- | :---: | :---: |
| Boys | 35 | 22 |
| Girls | 14 | 17 |

a. How many children walk to school? $\qquad$
b. How many more boys walk to school than girls? $\qquad$
c. Are there more boys or girls on the bus? $\qquad$

## Assessment For The California Mathematics Standards

## Grade 2

## Measurement and Geometry

(nE 1.1 Below is a picture of a house and a stick. About how many sticks wide is the picture?

A. 3 sticks B. 4 sticks C. 6 sticks D. 9 sticks


ne 1.2 Measure the length of your desk with a new crayon and with a new pencil. Which is greater, the number of crayon units or the number of pencil units?

## Assessment For The California Mathematics Standards

## Grade 2

ne 1.3 About how many inches long is the line?

## Assessment For The California Mathematics Standards Grade 2

a. What time is it on this clock? $\qquad$

b. 1. How many minutes in one hour?
2. How many days in one week? $\qquad$
c. Circle the greater amount of time
a. 3 weeks or 19 days
b. 27 days or 4 weeks
c. 85 seconds or 1 minute
d. 1 day or 20 hours

# Assessment For The California Mathematics Standards 

## Grade 2

me 1.5 Anna started work at 10:00 a.m. It took her 3 hours to do her work. What time did Anna finish her work?
$\qquad$
a. How many sides does a triangle have?
$\qquad$
b. How many vertices does a rectangle have?
$\qquad$
c. How many faces on a cube? $\qquad$

## Assessment For The California Mathematics Standards Grade 2

## Measurement and Geometry

MG 2.2
A.

B.

C.


Which two triangles can be put together to form a rectangle? $\qquad$

## Assessment For The California Mathematics Standards

## Grade 2

## Statistics, Data Analysis, and Probability

s 1.1 Here is a table to record the number of students whose favorite sport is one of the five below:

| Favorite <br> Sport | Running | Basketball | Swimming | Soccer | Baseball |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Number of <br> Students |  |  |  |  |  |

Ten students gave answers. Juan, Bob, and Judy like running the most. Mu-lan and Carlos like swimming the most. Angel and Tom like soccer the most. Julia likes baseball the most. Bobby and Jack like basketball the most. What number should be written below "Swimming"?
A. 0
B. 1
C. 2
D. 3
E. I don't know

## Assessment For The California Mathematics Standards

## Grade 2

This tally shows how many students were absent this week. Students Absent this Week Monday Tuesday
Wednesday Friday
Which bar graph shows the same data?
A.

B.

C.

Number of
students absent
Number of
students absent
Mon. Tues. Wed. Thur. Fri.

D.

Number of students absent

Number of students absent

## Assessment For The California Mathematics Standards <br> Grade 2

$s 1.3$
a. Miguel had a party. Eight children were at the party. If each one got two balloons, how many balloons did the children have altogether?
$\qquad$
b. What will the missing numbers be if the numbers increase by the same amount?
$1,4, \ldots, 10, \ldots, 16$

# Assessment For The California Mathematics Standards Grade 2 

s 1.3 c. Here are the scores that children received on a test.

90 - Jerry, Sam, Alicia, Ramon, Teresa<br>80 - Alexander, Charlene, Susan, Thomas, Sandra, Teresa<br>65 - Arthur, Betsy<br>50 - David

1. What score did the most children earn? $\qquad$
2. What was the highest score? $\qquad$
3. What was the lowest score? $\qquad$
