



Year 7 Numeracy

Calculator allowed

Full-length Test 8

Writing time: 40 minutes

Use 2B pencil only

Instructions

- Write your **student name** in the space provided.
- You must be silent during the test.
- If you need to speak to the teacher, raise your hand. Do not speak to other students.
- Answer all questions using a 2B pencil.
- If you wish to change your answer, erase it thoroughly and then write your new answer.
- Students are permitted to bring a calculator into the test room.

Student name:

QUESTION 1

What is the value of 7 in 4.871?

- ☐ hundreds
☐ thousands
☒ hundredths
☐ thousandths

SHADE ONE BOX**QUESTION 2**

Which of the following is equivalent to $\frac{3}{4}$?

- ☒ 75% ☐ $\frac{16}{20}$ ☐ 0.6 ☐ $\frac{36}{45}$

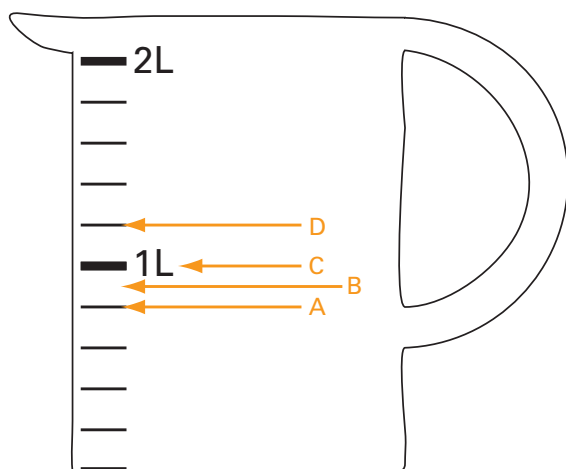
SHADE ONE BOX**QUESTION 3**

The value of $2^4 + 3^3 + 4^2$ is?

59

WRITE YOUR OWN ANSWER**QUESTION 4**

A jug contains 1.4 L of milk. Three glasses of milk, each one holding 200 mL, are poured. Which arrow shows the amount of milk left in the jug?



- ☒ A ☐ B ☐ C ☐ D

SHADE ONE BOX**QUESTION 5**

Chicken must be cooked 50 minutes for every kilogram it weighs. If a chicken weighs 3.5 kg, how long will it take to cook?

- ☐ 1 hour 55 minutes
☐ 1 hour 75 minutes
☐ 2 hours 45 minutes
☒ 2 hours 55 minutes

SHADE ONE BOX

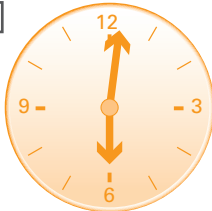
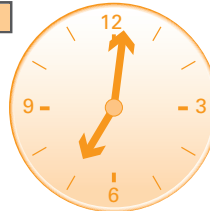
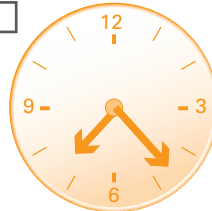
QUESTION 6**WRITE YOUR OWN ANSWER**

If $x = \frac{1}{2}$, what is the value of $6x + 8$?

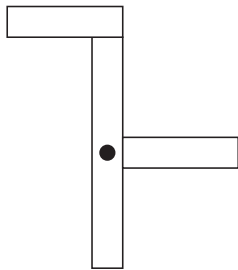
11

QUESTION 7**SHADE ONE BOX**

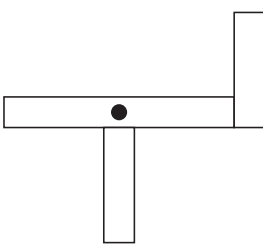
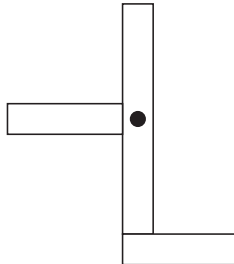
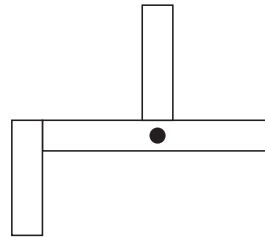
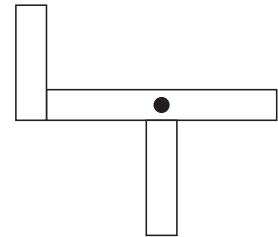
Anne went to sleep at 8:42 p.m. and slept for 10 hours and 19 minutes. What time did Anne wake up?

☐☐☒☐**QUESTION 8****SHADE ONE BOX**

This shape turns around the black dot.



What does it look like after a 180 degree turn clockwise?

☐☒☐☐**QUESTION 9****SHADE ONE BOX**

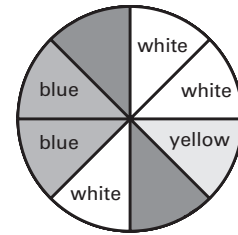
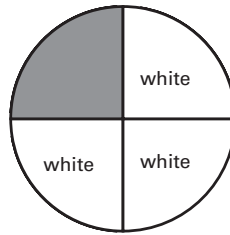
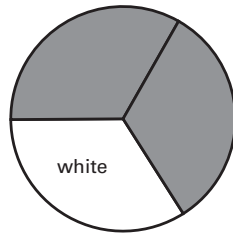
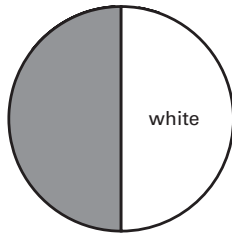
Which one of the following is an example of discrete data?

- ☐ the times run by students in a 100 m race
- ☒ the number of people attending a sporting match
- ☐ the birthplace of people living in Australia
- ☐ the heights of students in Year 7

QUESTION 10

Chloe makes a spinner. It is very likely, but not certain, that she will spin red. Which spinner is Chloe's?

SHADE ONE BOX

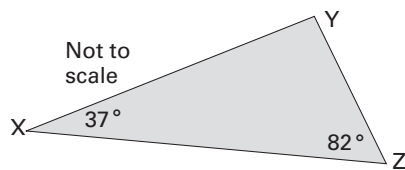

☐
☒
☐
☐


QUESTION 11

Calculate the size of $\angle XYZ$.



WRITE YOUR OWN ANSWER



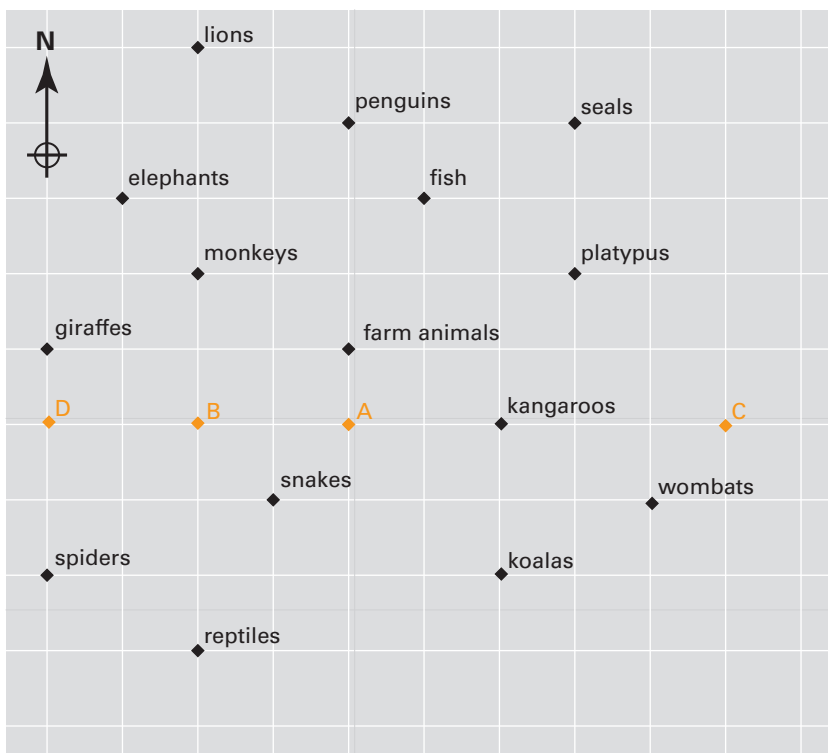
61

degrees

QUESTION 12

This is a map of a zoo.

SHADE ONE BOX



Marcus is standing due west of the kangaroos and south-east of the monkeys. Which point on the map shows where Marcus is standing?

☒ A

☐ B

☐ C

☐ D

QUESTION 13

SHADE ONE BOX



Which one of the following events is best described as equally likely to occur?

- ☒ You toss a coin and it shows tails.
- ☐ You roll a normal die and you get a 1, 2, 3 or 4.
- ☐ A bag contains blue and red marbles and you choose, without looking, a yellow marble.
- ☐ You win first prize in a competition.

QUESTION 14

SHADE ONE BOX



Wendy has read 128 pages of a book containing a total of 466 pages. How many more pages does Wendy need to read to be halfway through the book?

- ☐ 64
- ☒ 105
- ☐ 233
- ☐ 338

QUESTION 15

SHADE ONE BOX



Oliver has a cough and he takes cough medicine for it. His mother has a full 200 mL bottle of cough medicine. Each dose is 17 mL. How many full doses of cough medicine are contained in the bottle?

- ☒ 11
- ☐ 12
- ☐ 13
- ☐ 14

QUESTION 16

SHADE ONE BOX



The number of ice creams sold during a heatwave was 450. Two flavours were sold to customers. The ratio of chocolate ice creams sold to strawberry ice creams sold was 3 to 2. How many strawberry ice creams were sold during the heatwave?

- ☐ 75
- ☒ 180
- ☐ 270
- ☐ 300

QUESTION 17

SHADE ONE BOX



Which time is the same as the time shown on this digital clock?

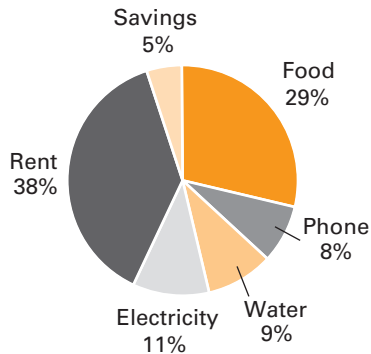


- ☐ 5:30 a.m.
- ☐ 7:30 a.m.
- ☒ 5:30 p.m.
- ☐ 7:30 p.m.

QUESTION 18**WRITE YOUR OWN ANSWER**

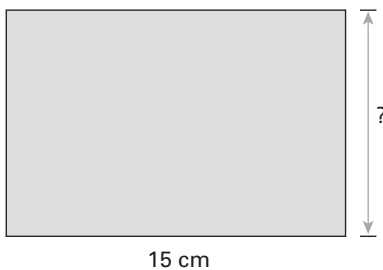
The Johnson family has a monthly budget of \$3750. How much do they spend each month on food?

Johnson family monthly budget

**QUESTION 19****SHADE ONE BOX**

There were 24 students in class 7A. In a competition, the average number of points scored per student was 130. What was the total number of points scored by all the students in 7A?

- ☐ 154 ☐ 2120 ☐ 2520 ☒ 3120

QUESTION 20**SHADE ONE BOX**

The perimeter of a rectangle is 54 cm. If its length is 15 cm, what is its width?

- ☐ 39 cm
☐ 24 cm
☒ 12 cm
☐ 6 cm

QUESTION 21**SHADE ONE BOX**

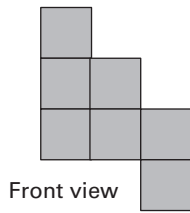
Which one of these is equivalent to $12 + 4 \times 6 \div 3$?

- ☐ $37 - 17 - 15 \times 4$
☐ $60 - 20 \times 2 \div 4$
☐ $9 \times 6 - 14 \div 2$
☒ $56 \div (5 + 3) \times 3 - 1$

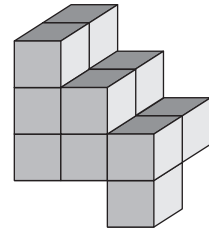
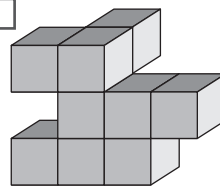
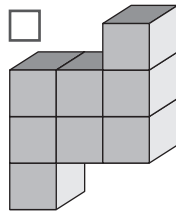
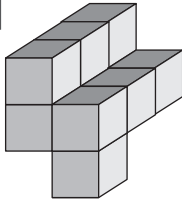
QUESTION 22

An object was made using identical cubes.

The diagram below shows the front view of the solid.



Which solid could have the front view shown above?



QUESTION 23

What is the missing number?

$$3 \times \square - 15 = 18$$



11



9



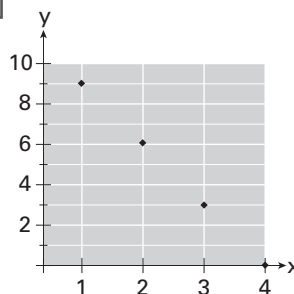
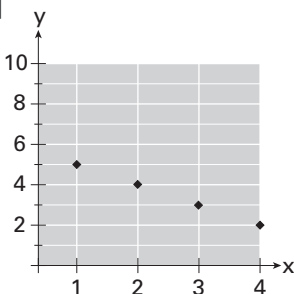
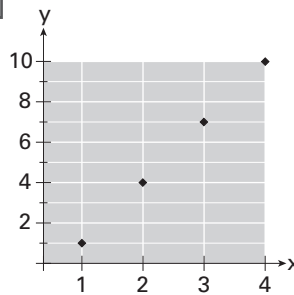
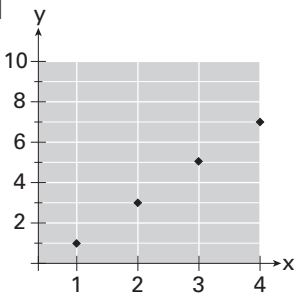
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1

QUESTION 24

Which number plane shows a set of ordered pairs satisfying the equation $y = 3x - 2$?



QUESTION 25**WRITE YOUR OWN ANSWER**

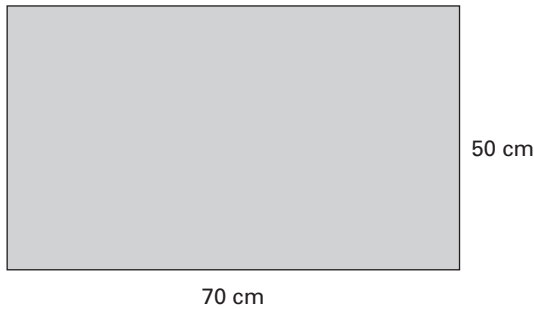
A piece of material 2.41 m long is cut into lengths of 0.06 m.
How many lengths of material can be cut?

40

lengths of material

QUESTION 26**WRITE YOUR OWN ANSWER**

Sarah is an artist. She paints four paintings for her friends as presents. The paintings are all the same size, as indicated by the shape below.



Sarah wants to buy frames for each of the paintings. The material for each frame costs \$6 per metre.
What will it cost Sarah to buy the material for the frames?

\$ 57.60

QUESTION 27**SHADE ONE BOX**

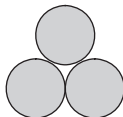
What is the angle sum of a quadrilateral?

☐ 90°☐ 180°☒ 360°☐ 450°**QUESTION 28****WRITE YOUR OWN ANSWER**

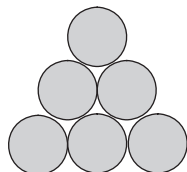
Miles is making this stack of cans for a supermarket display.



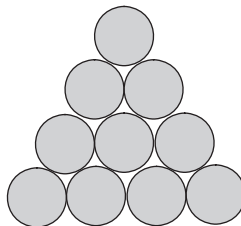
Shape 1



Shape 2



Shape 3



Shape 4

This table shows the number of cans used in the pattern for the display.

Shape	1	2	3	4	5
Number of cans	1	3	6	10	?

How many cans are needed to build shape 5?

15

cans

QUESTION 29

SHADE ONE BOX



A sale was advertised in a clothing shop window.



A few days later, another sale was advertised in the clothing shop.



William wants to buy a jacket. Its original price was \$125. If William receives both discounts, what is the total amount William will save in the sale?

☒ \$40

☐ \$43.75

☐ \$81.25

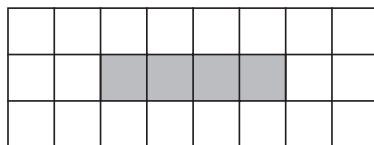
☐ \$85

QUESTION 30

SHADE ONE BOX



Here is a plan of Jack's backyard.



Key

☐ Grass

☒ Flower bed

The area of the flower bed is 12 m^2 . What is the area of the grass in Jack's backyard?

☐ 36 m^2

☐ 48 m^2

☒ 60 m^2

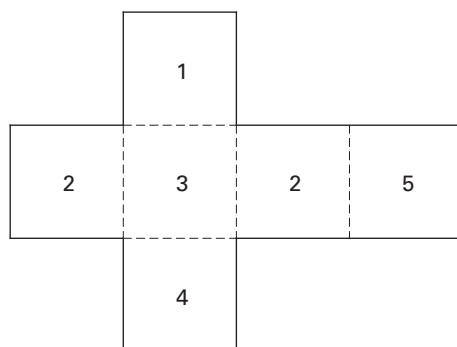
☐ 72 m^2

QUESTION 31

SHADE ONE BOX



The net of a die is shown below.



If I roll the die once, what is the probability that I roll a 2?

☐ $\frac{1}{6}$

☐ $\frac{1}{4}$

☒ $\frac{1}{3}$

☐ $\frac{1}{2}$

QUESTION 32

SHADE ONE BOX



A student scored the following marks, out of 20, in five weekly history tests:

Test 1: 18

Test 2: 15

Test 3: 11

Test 4: 15

Test 5: 16

Which one of the following statements is true?

- ☐ His average (mean) is 14.
- ☒ The mode of his marks is 15.
- ☐ The median of his marks is 11.
- ☐ His score in Test 3 has affected his median test mark.