

Test 1: Non-calculator



Instructions

- A correct answer scores 1 mark, and an incorrect answer scores 0.
- Marks are not deducted for incorrect answers.
- No marks are given if more than one answer alternative is shaded.
- Choose the alternative which most correctly answers the question and shade in the box next to it.

QUESTION 1

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



☐ 3.45 a.m.

☒ 3.45 p.m.

☐ 5.45 a.m.

☐ 5.45 p.m.

SHADE ONE BOX



QUESTION 2

What is the value of $241 + 362$?

☐ 503

☐ 593

☒ 603

☐ 613

SHADE ONE BOX



QUESTION 3

Which fraction is equivalent to $\frac{3}{4}$?

☐ $\frac{5}{8}$

☒ $\frac{9}{12}$

☐ $\frac{12}{18}$

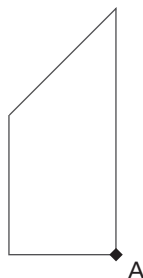
☐ $\frac{20}{25}$

SHADE ONE BOX



QUESTION 4

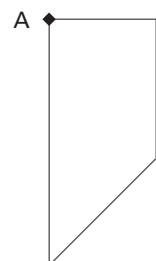
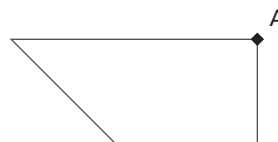
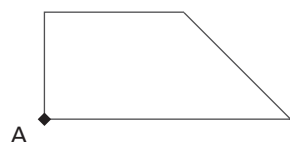
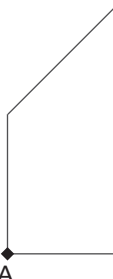
Peta draws this shape.



SHADE ONE BOX



She then rotates it 90° clockwise about A. After it has been rotated, what would it look like?



QUESTION 5**WRITE YOUR OWN ANSWER**

Tom starts with a number. He adds 3 then multiplies it by 6. The answer is 42.

What number did Tom start with?

4

QUESTION 6**SHADE ONE BOX**

What is \$10 as a percentage of \$50?

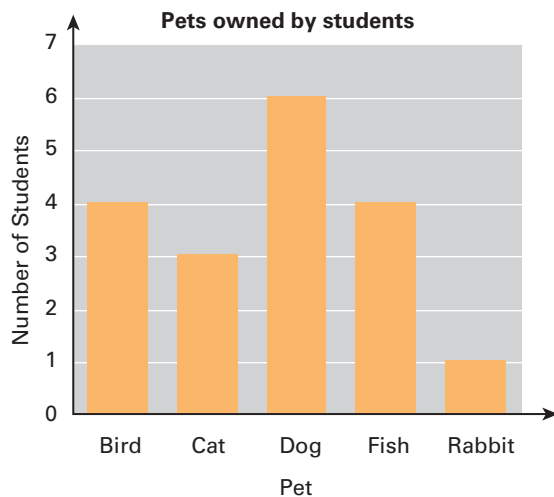
☐ 5%☐ 10%☒ 20%☐ 50%**QUESTION 7****WRITE YOUR OWN ANSWER**

What is the missing number?

$$4 \times \boxed{10} = 5 \times 8$$

QUESTION 8**SHADE ONE BOX**

The column graph below shows the number of pets owned by students in a Year 7 class. Which of these statements is true?



- ☐ The number of students who own cats is greater than the number who own birds.
- ☐ There are 20 students who own pets in this class.
- ☐ The number of students who own birds is smaller than the number who own rabbits.
- ☒ The number of students who own dogs is more than the number who own fish.

QUESTION 9**SHADE ONE BOX**

Jeremy has a 1.5 L bottle of juice. He pours all the drink into 40 mL cups. What is the best way to find the number of cups Jeremy can fill?

☐ $1.5 \div 100 \times 40$ ☐ $1.5 \div 1000 \times 40$ ☐ $1.5 \times 100 \div 40$ ☒ $1.5 \times 1000 \div 40$

QUESTION 10SHADE ONE BOX 

Which number is smaller than 8.7?

☐ 8.77☒ 8.07☐ 8.777☐ 8.707**QUESTION 11**SHADE ONE BOX 

Hayden has a bag with 5 black balls, 2 red balls and 6 blue balls in it.
If he takes one coloured ball out of his bag, which word(s) describes the chance that it is red?

☐ certain☐ very likely☐ even chance☒ unlikely**QUESTION 12**SHADE ONE BOX 

Minna is using this biscuit recipe:

Anzac Biscuit recipe

Makes 20 biscuits

1 cup plain flour

$\frac{1}{2}$ cup butter

1 cup rolled oats

2 tbs golden syrup

1 cup desiccated coconut

1 tsp bicarbonate of soda

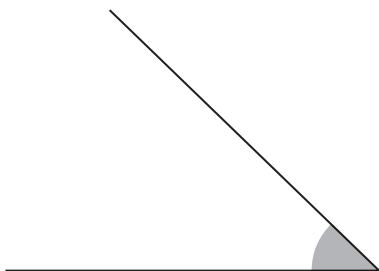
$\frac{1}{2}$ cup brown sugar

2 tbs boiling water

How many cups of butter are needed to make 100 Anzac biscuits?

☐ $\frac{1}{2}$ ☒ $2\frac{1}{2}$ ☐ 5☐ 10**QUESTION 13**SHADE ONE BOX 

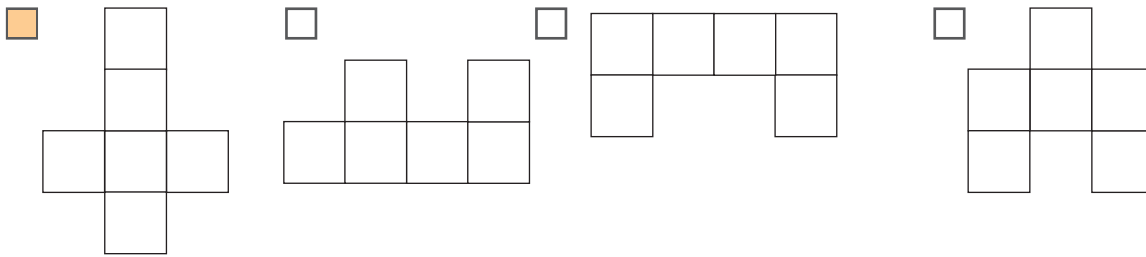
What is the best estimate of the size of this angle?

☐ 30°☒ 45°☐ 60°☐ 20°

QUESTION 14

Which diagram shows the net of a cube?

SHADE ONE BOX



QUESTION 15

What fraction is equivalent to $2\frac{1}{5}$?

SHADE ONE BOX



☐ $\frac{7}{5}$

☐ $\frac{8}{5}$

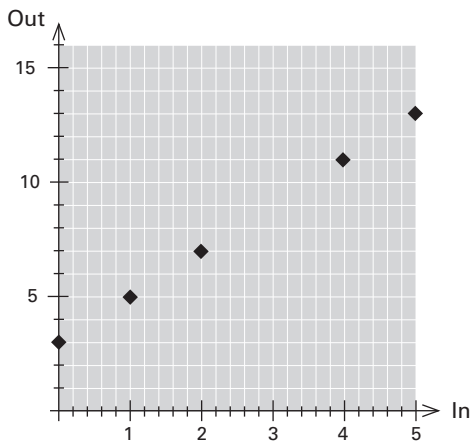
☐ $\frac{10}{5}$

☒ $\frac{11}{5}$

QUESTION 16

The graph below shows a pattern.

WRITE YOUR OWN ANSWER



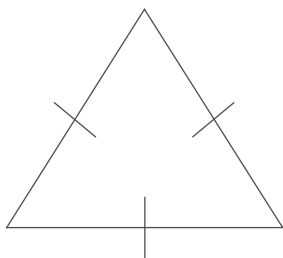
Which ordered pair is missing from the graph?

(3, 9)

QUESTION 17

What word best describes the following triangle?

SHADE ONE BOX



☐ obtuse-angled

☐ isosceles

☐ right-angled

☒ equilateral

QUESTION 18

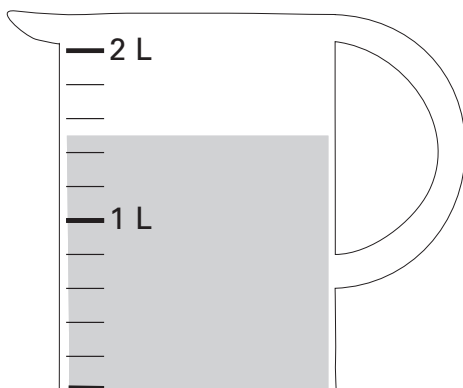
Which number is three thousand, eight hundred and seventy?

☒ 3870☐ 3807☐ 3087☐ 3078**SHADE ONE BOX****QUESTION 19**

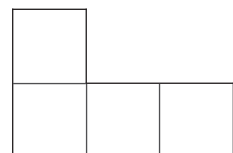
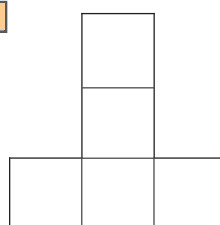
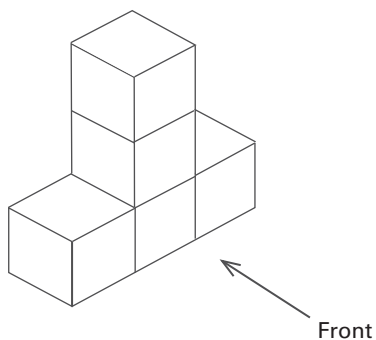
An athlete walks at a rate of 3 m/s. At this rate, how far can the athlete walk in one minute?

☐ 60 m☒ 180 m☐ 300 m☐ 360 m**SHADE ONE BOX****QUESTION 20**

This jug contains some cordial. If Chris takes 600 mL from the jug, how much cordial is left?

WRITE YOUR OWN ANSWER**QUESTION 21**

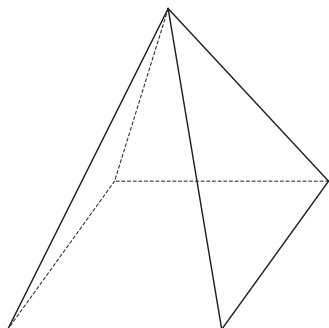
Which diagram below shows the front view of this solid?

SHADE ONE BOX

QUESTION 22



WRITE YOUR OWN ANSWER



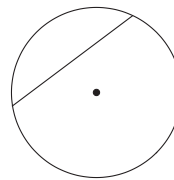
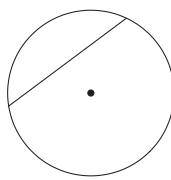
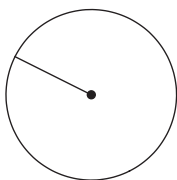
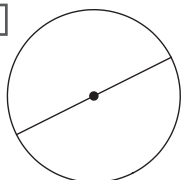
How many edges does this solid have?

8

QUESTION 23

Which diagram below shows the radius of a circle?

SHADE ONE BOX



QUESTION 24



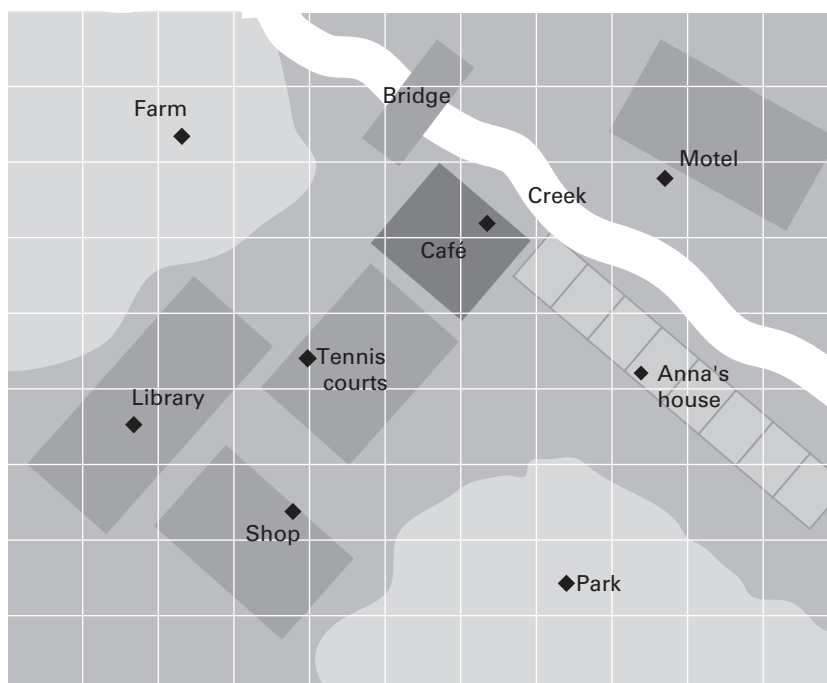
WRITE YOUR OWN ANSWER

The map below has a scale of 1 cm for every 3 km.

Use the map to find the actual distance from Anna's house to the shop.

15

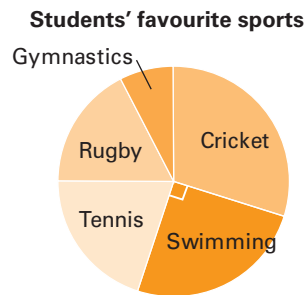
km



QUESTION 25

SHADE ONE BOX

Students at a school were surveyed to find out their favourite sport. The results are shown in the pie chart below.



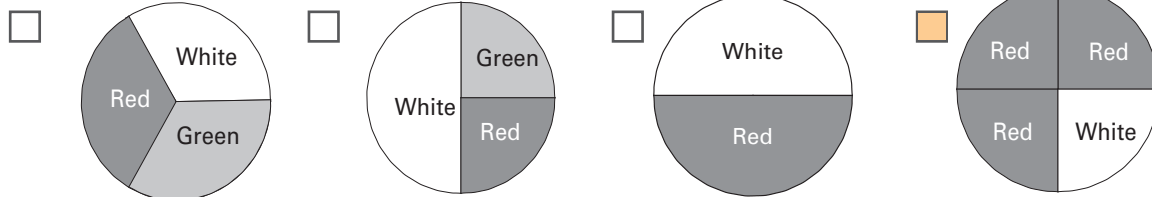
Which of the following statements is correct?

- ☐ One-quarter of the students preferred swimming.
- ☐ Tennis was more popular than cricket.
- ☐ One-third of the students preferred gymnastics.
- ☐ Cricket was less popular than rugby.

QUESTION 26

SHADE ONE BOX

Which spinner is most likely to spin red?



QUESTION 27



WRITE YOUR OWN ANSWER

For the set of quiz scores below, which is the mode?

8, 7, 7, 5, 4, 5, 6, 7, 8, 5, 9, 7

7

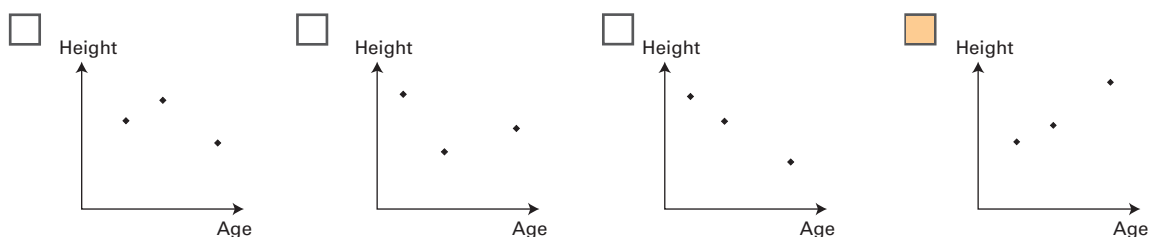
QUESTION 28

SHADE ONE BOX

The data in the table below compares the age of three children with their height.

Age	2	5	10
Height (cm)	95	115	148

Which graph best represents the data in the table?



QUESTION 29

60% of the fish in Andrew's fish tank are orange. If Andrew has 40 fish in the tank, how many fish are orange?

SHADE ONE BOX ☐ 16☒ 24☐ 27☐ 30**QUESTION 30**

Which of the following expressions is equivalent to $4 \times 9 - 8 + 2$?

SHADE ONE BOX ☒ $7 + 3 \times 6 + 5$ ☐ $18 \div 6 + 3$ ☐ $5 \times 4 + 3 \times 2$ ☐ $3^2 + 5^2$ **QUESTION 31**

The first three terms in a sequence are 1, 4, 9, ..., The next two terms will be:

SHADE ONE BOX ☐ 11, 15☐ 13, 25☐ 15, 21☒ 16, 25**QUESTION 32**

WRITE YOUR OWN ANSWER

Olivia, Phoebe and Georgia are sisters. They decide to put their pocket money together to buy their father a present for his birthday.

- Olivia has the most money.
- Phoebe has half of the amount of money that Georgia has.
- Georgia has \$22.
- Olivia has \$15 more than Phoebe.

How much money do the sisters have to spend on the present?

\$59