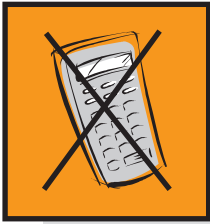


Test 3: Non-calculator



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 it $2\frac{1}{2}$ hours before 10.20 p.m.?

SHADE ONE BOX 

☒ 7:50 p.m.

☐ 12:50 a.m.

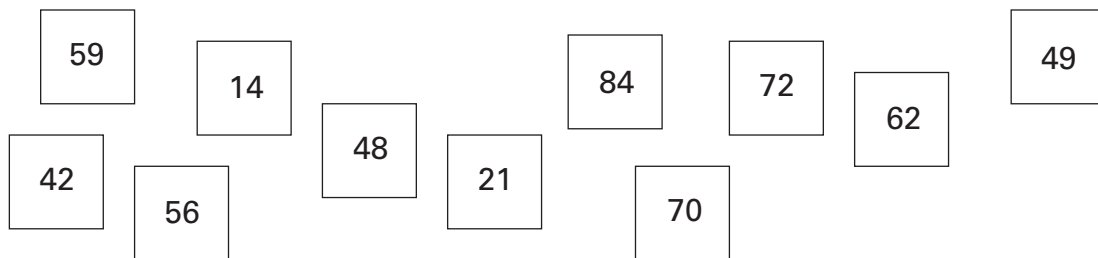
☐ 7:30 p.m.

☐ 12:30 a.m.

QUESTION 2

How many of these numbers are multiples of 7?

SHADE ONE BOX 



☐ 5

☐ 6

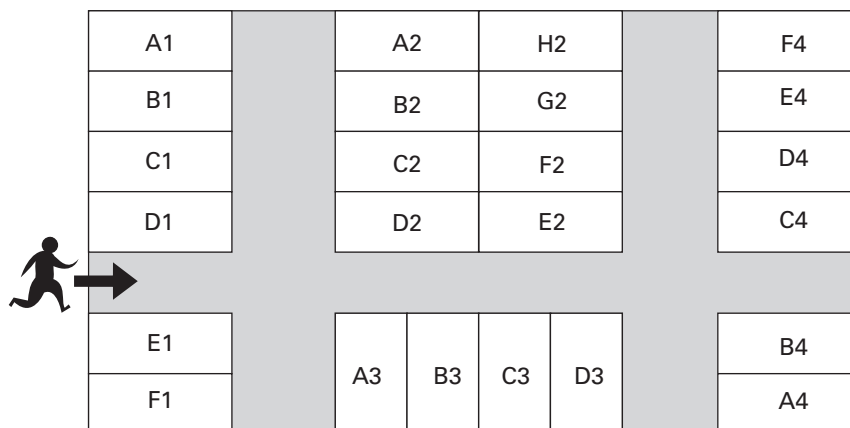
☒ 7

☐ 8

QUESTION 3

This plan shows the layout of shops in a shopping centre.

SHADE ONE BOX 



Tina enters the shopping centre at the arrow. She takes the second turn on her left and goes into the second shop on her right. Which shop did Tina enter?

☐ C2

☐ F2

☐ A4

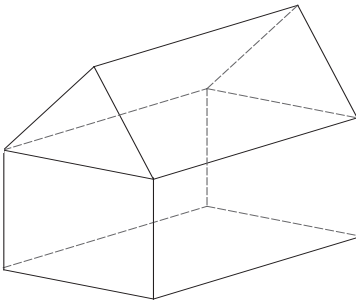
☒ D4

QUESTION 4

SHADE ONE BOX



A triangular prism and a rectangular prism have been glued together.



How many faces does the new object have?

☐ 4☒ 7☐ 8☐ 11**QUESTION 5**

WRITE YOUR OWN ANSWER

Sam's birthday is 8 April and Chloe's birthday is 11 July. How many days are there from Sam's birthday to Chloe's?

94

days

QUESTION 6

$$4 \times 1000 + 9 \times 100 + 6 = ?$$

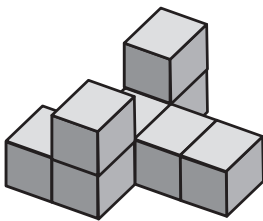
☐ 496☐ 4096☒ 4906☐ 4960

SHADE ONE BOX

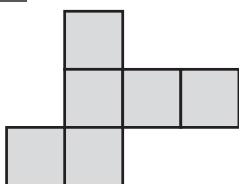
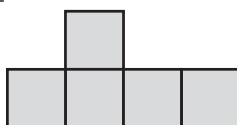
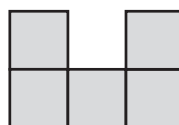
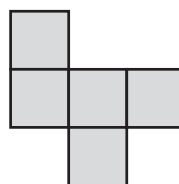
**QUESTION 7**

The object shown below was made using identical cubes.

SHADE ONE BOX

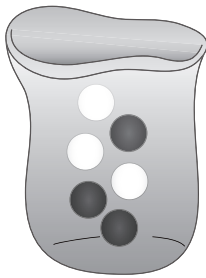
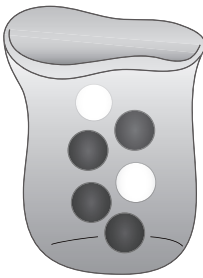
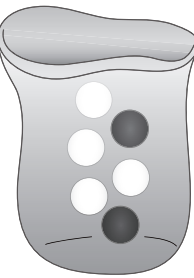
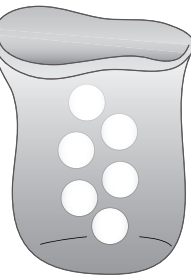


Which diagram below shows the top view of this solid?

☒☐☐☐

QUESTION 8

Andrew takes one ball out of his bag without looking. It is very unlikely, but not impossible, that he will get a white ball. Which bag is Andrew's?

☐

☐

☐

☐


SHADE ONE BOX



QUESTION 9

Convert 0.391 kg to grams.

☐

3.91 g

☐

39.1 g

☐

391 g

☐

3910 g

SHADE ONE BOX



QUESTION 10

Look at these dogs.



What fraction of these dogs are not black?

☐

$\frac{3}{5}$

☐

$\frac{5}{8}$

☐

$\frac{2}{3}$

☐

$\frac{3}{4}$

SHADE ONE BOX



QUESTION 11

Zoe is facing south-west and turns 90° in a clockwise direction. Which direction is she now facing?

☐

south-east

☐

north-west

☐

east

☐

west

SHADE ONE BOX



QUESTION 12

The table shows the results of a survey on Internet usage.

Age	Monthly Internet usage		
	10 h or less	more than 10 h but less than 20 h	20 h or more
Under 20 years	8	26	23
20–40 years	15	19	11
40–60 years	22	15	14
over 60 years	10	4	0

In total, how many people aged 20–40 years used the Internet each month for more than 10 hours?

30

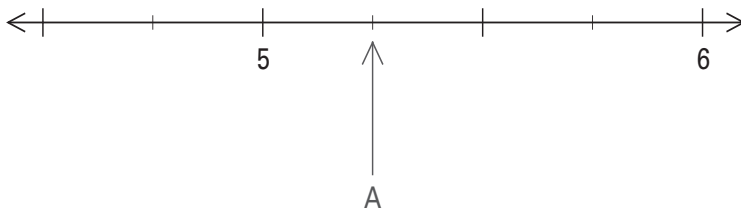
people



WRITE YOUR OWN ANSWER

QUESTION 13

A number line is shown below.



What number is represented on the number line by A?

☒ $5\frac{1}{4}$

☐ $5\frac{3}{8}$

☐ $5\frac{1}{2}$

☐ $5\frac{3}{4}$

SHADE ONE BOX



QUESTION 14

The maximum daily temperatures ($^{\circ}\text{C}$) in Prague and London over one week in January are shown below.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Prague	-6	-4	-5	-3	-1	1	0
London	3	4	7	2	-1	-2	3

Which day shows the greatest difference in temperature between the two cities?

Tuesday



WRITE YOUR OWN ANSWER

QUESTION 15

Rashid is using this scone recipe:

Scone recipe

Makes 20 scones

60 g butter

2 cups flour

1 cup milk

$\frac{1}{4}$ tsp salt

How many cups of flour are needed to make 70 scones?

7

cups



WRITE YOUR OWN ANSWER

QUESTION 16

What is $1256 \div 8$ equivalent to?

☐ 107

☐ 132

☐ 146

☒ 157

SHADE ONE BOX



QUESTION 17

The rule for the table of values given below is $y = 2x + 3$.

x	1	3	5	7	9
y	5	9	?	17	21

What value is missing?

☐ 12

☒ 13

☐ 14

☐ 15

SHADE ONE BOX



QUESTION 18

Which one of these expressions has a value of 4?

☐ $18 - 10 \div 2$

☐ $\frac{3}{12}$

☒ $4^3 \div 4^2$

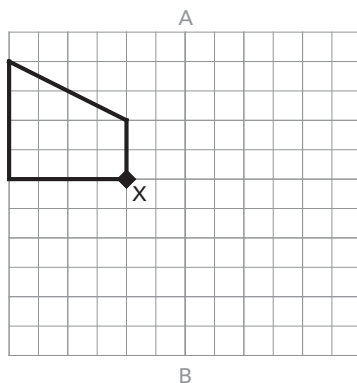
☐ $8 \times 4 \div 2 + 6$

SHADE ONE BOX

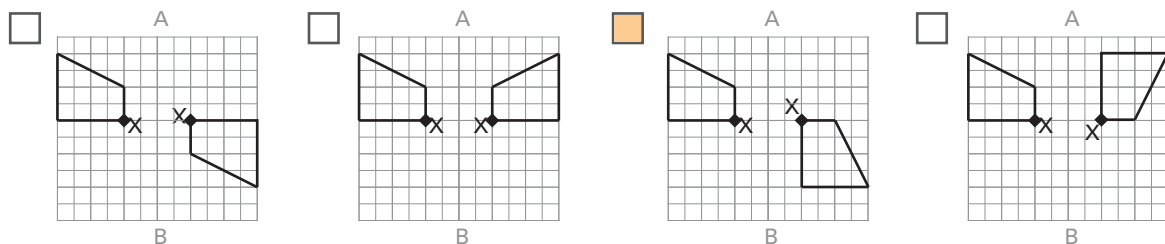


QUESTION 19

Gemma draws this shape:



She reflects it in the line AB and then rotates it 90° clockwise about point X. What would it look like after it has been reflected and rotated?



SHADE ONE BOX



QUESTION 20

Which decimal is closest to 0.74?

☒ 0.75

☐ 0.71

☐ 0.8

☐ 0.7

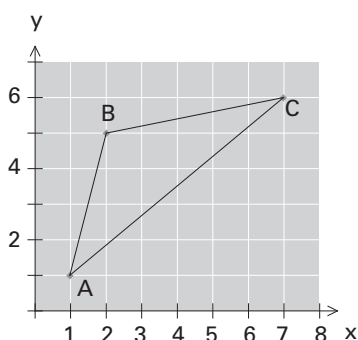
SHADE ONE BOX



QUESTION 21

What is the ordered pair that represents point B?

B(2,5)

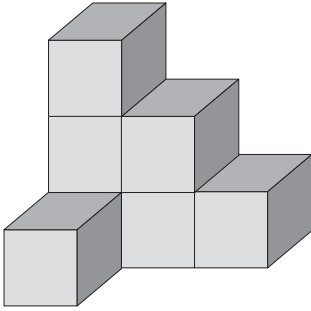


WRITE YOUR OWN ANSWER



QUESTION 22**WRITE YOUR OWN ANSWER**

Jake wants to make a solid cube that is three small cubes long, wide and high.

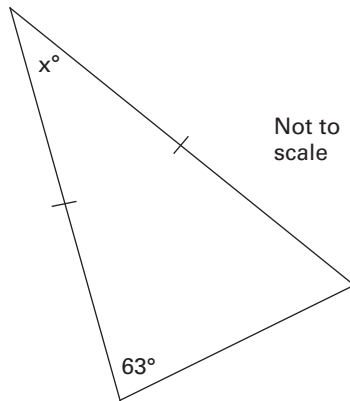


How many **more** cubes does Jake need?

cubes

QUESTION 23**WRITE YOUR OWN ANSWER**

I start with the number 7. I then add 2 and multiply the answer by 8. Then I subtract 15. What is the answer?

QUESTION 24**SHADE ONE BOX**

What is the value of x in the diagram above?

☒ 54☐ 63☐ 117☐ 126**QUESTION 25****WRITE YOUR OWN ANSWER**

Peter places 6 books in each of 9 boxes.

He has 4 books leftover.

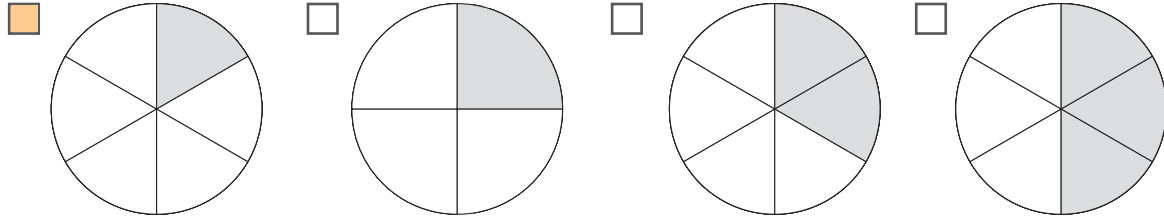
Peter wants to place 8 books in each box. How many more books does he need?

books

QUESTION 26

SHADE ONE BOX

Half a cake has been eaten. The remainder is to be shared equally between three children. Which diagram shows the amount of cake each child will receive?

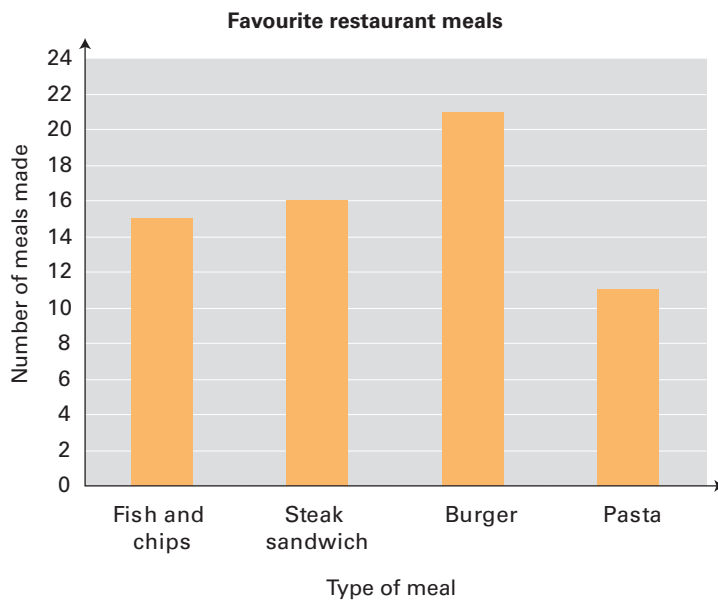


QUESTION 27



WRITE YOUR OWN ANSWER

On a busy night in a restaurant, the chef counted the meals made. The results are shown in the column graph below.



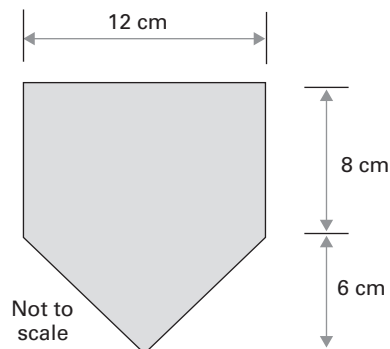
How many meals were made that night?

63 meals

QUESTION 28

SHADE ONE BOX

The diagram below shows a rectangle and a triangle joined together.



What is the total area of this shape?

☐ 168 cm²

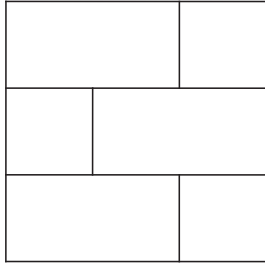
☒ 132 cm²

☐ 120 cm²

☐ 84 cm²

QUESTION 29

This tile pattern is made up of squares and rectangles. Each rectangle has a length of 10 cm and a width of 5 cm.

**SHADE ONE BOX**

What is the total area of one tile?

☐ 200 cm²☒ 225 cm²☐ 250 cm²☐ 275 cm²**QUESTION 30**

On a holiday adventure camp, the ratio of children to cabins is 4 to 1. If there are eight cabins, how many children are there?

SHADE ONE BOX☒ 32☐ 24☐ 16☐ 12**QUESTION 31**

A cyclist can ride one lap of a bike track in 40 seconds. How many laps will the cyclist have completed after riding for four minutes at the same speed?

SHADE ONE BOX☒ 6☐ 8☐ 10☐ 15**QUESTION 32**

In a test, three marks are awarded for every correct answer and one mark is taken away for each wrong answer. If there are 20 questions in the test and David is awarded 36 marks, how many questions did he answer correctly?

**WRITE YOUR OWN ANSWER**

questions correct