

Test 2: Calculator allowed



Instructions

- A correct answer scores 1 mark, and an incorrect answer scores 0.
- Marks are not deducted for incorrect answers.
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- Choose the alternative which most correctly answers the question and shade in the box next to it.

QUESTION 1

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



☐ 7:20 a.m.

☐ 9:20 a.m.

☒ 7:20 p.m.

☐ 9:20 p.m.

SHADE ONE BOX



QUESTION 2

What is the missing number?

$$8 \times 57 = 19 \times ?$$

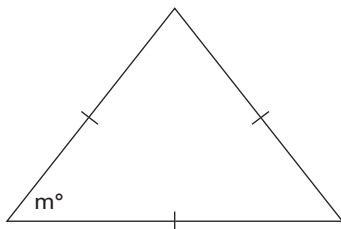
24

WRITE YOUR OWN ANSWER



QUESTION 3

What is the value of m° in this triangle?



☐ 30°

☐ 45°

☒ 60°

☐ 120°

SHADE ONE BOX



QUESTION 4

Which one of these is equivalent to $\frac{4}{5}$?

☒ 80%

☐ $\frac{18}{20}$

☐ 0.75

☐ $\frac{44}{45}$

SHADE ONE BOX



QUESTION 5**WRITE YOUR OWN ANSWER**

For six games in a basketball season, David has scored the following points: 6, 11, 16, 8, 12 and 7.

What is the average number of points David scored per game?

QUESTION 6**WRITE YOUR OWN ANSWER**

$2568 - 719 = ?$

QUESTION 7**WRITE YOUR OWN ANSWER**

Nishan ran a distance of 100 m in 16 seconds. What is Nishan's average speed (in metres per second)?

metres per second

QUESTION 8**SHADE ONE BOX**

A tin contains 10 yellow, 3 red and 7 white jellybeans. Without looking, Kai takes one jellybean from the tin. What is the probability that Kai chooses a yellow jellybean?

☐ 0.1☐ 0.2☒ 0.5☐ 0.7**QUESTION 9****SHADE ONE BOX**

Anousha and Ethan share \$175 in a ratio of 4:3. How much does Ethan receive?

☐ \$100☒ \$75☐ \$50☐ \$25**QUESTION 10****SHADE ONE BOX**

Darcy uses this rule to work out the next number in a pattern: multiply by 9 and then add 4.

The first three terms of this pattern are: 13, 22, 31, ...

What is the seventh term in this pattern?

☐ 63☐ 66☒ 67☐ 71**QUESTION 11****SHADE ONE BOX**

Which fraction has the same value as $7\frac{1}{2}$?

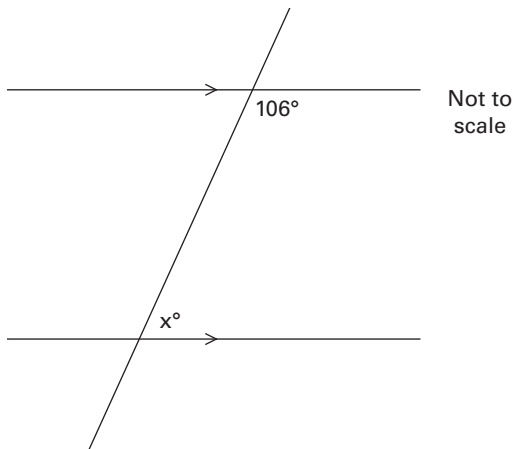
☐ $\frac{21}{2}$ ☐ $\frac{10}{2}$ ☐ $\frac{14}{2}$ ☒ $\frac{15}{2}$

QUESTION 12

SHADE ONE BOX



What is the size of angle x ?



☐ 106

☐ 98

☒ 74

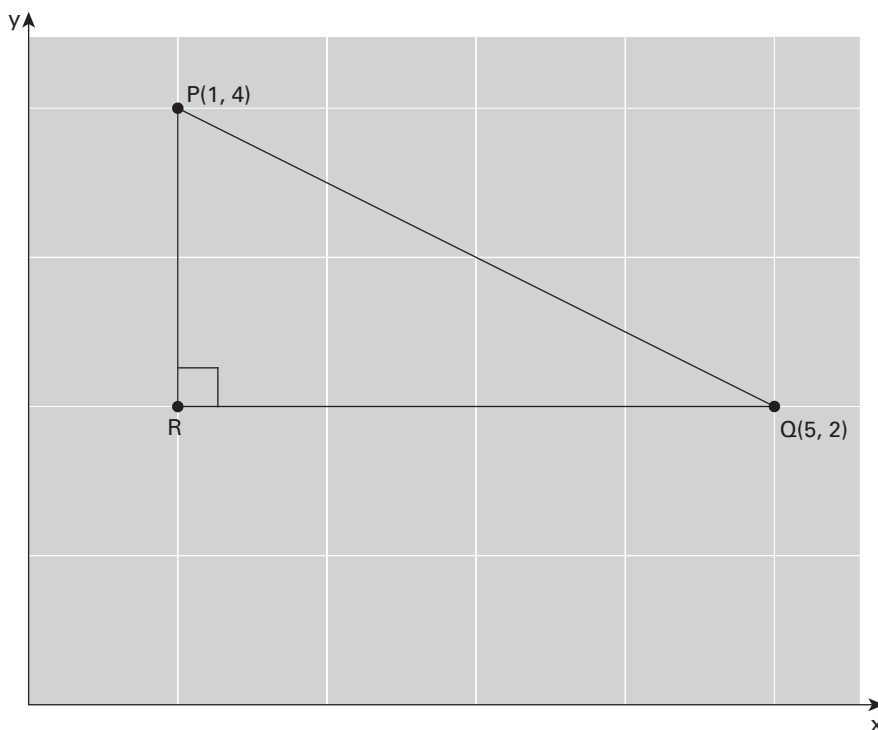
☐ 62

QUESTION 13



WRITE YOUR OWN ANSWER

What are the coordinates of R?



R(1, 2)

QUESTION 14

SHADE ONE BOX



A decorative serving plate has a radius of 12 cm. What is the circumference of the plate, to the nearest centimetre?

☐ 37 cm

☐ 38 cm

☒ 75 cm

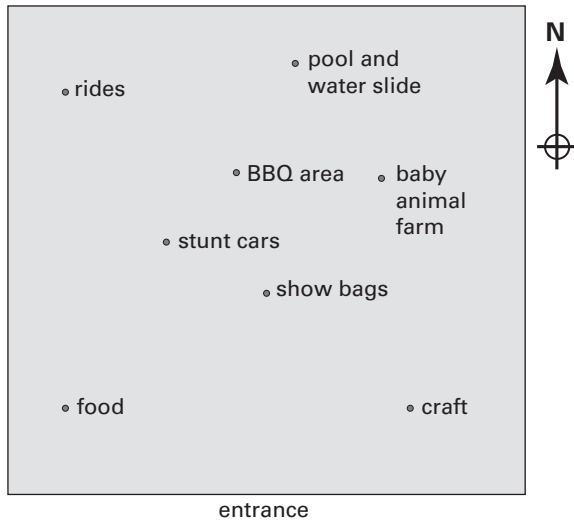
☐ 76 cm

QUESTION 15

SHADE ONE BOX



The map below shows the layout of a showground.



If Will is standing at the show bags, in what direction are the rides?

- ☐ south-east
- ☐ south-west
- ☐ north-east
- ☒ north-west

QUESTION 16

SHADE ONE BOX



What is the square root of 500?

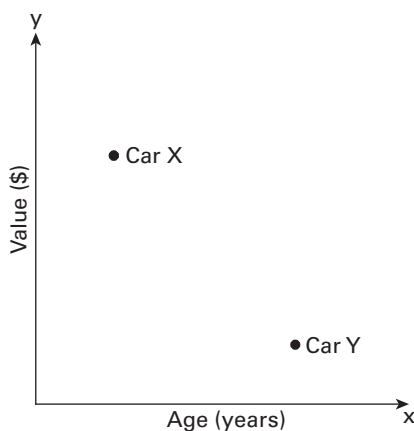
- ☐ between 15 and 20
- ☒ between 20 and 25
- ☐ between 60 and 90
- ☐ between 200 and 250

QUESTION 17

SHADE ONE BOX



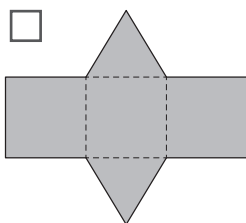
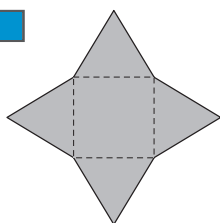
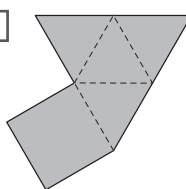
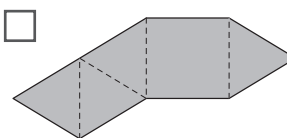
The graph shows the value of two cars and their age in years. Which one of these statements is true?



- ☐ Car X is an older car and less expensive than car Y.
- ☐ Car Y is a newer car and less expensive than car X.
- ☐ Car Y is an older car and worth more than car X.
- ☒ Car X is a newer car and worth more than car Y.

QUESTION 18

Which diagram below shows the net of a square pyramid?

☐☒☐☐**SHADE ONE BOX****QUESTION 19**

A triangle has an area of 357 cm^2 and a perpendicular height of 21 cm. What is the length of its base?

34

cm

**WRITE YOUR OWN ANSWER****QUESTION 20**

If $x = 7$, what is the value of the expression $2x^2$?

98

**WRITE YOUR OWN ANSWER****QUESTION 21**

A rainwater tank holds 15.5 kL when full. How many litres of rainwater is this?

☐ 155☐ 1505☐ 1550☒ 15500**SHADE ONE BOX****QUESTION 22**

Nick bought a new lounge at a furniture sale. He was given a 15 per cent discount off the original price. The original price of the lounge was \$1600. How much did Nick pay for the lounge?

☐ \$240☐ \$320☒ \$1360☐ \$1440**SHADE ONE BOX****QUESTION 23**

Which one of these gives the largest value?

☐ $\sqrt{1.44}$ ☐ $0.27 \div 0.3$ ☐ $4.6 - 3.52$ ☒ $0.73 + 0.5 + 0.14$ **SHADE ONE BOX**

QUESTION 24

$$6x + 4y - x = ?$$

☒ $5x + 4y$

☐ $9xy$

☐ $6 + 4y$

☐ $10xy - x$

SHADE ONE BOX

QUESTION 25

Tyneville is 6.2 cm from Reed Hills on a map.

On the map, 1 cm represents 4 km.

What is the actual distance from Tyneville to Reed Hills?

☒ 24.8 km

☐ 15.5 km

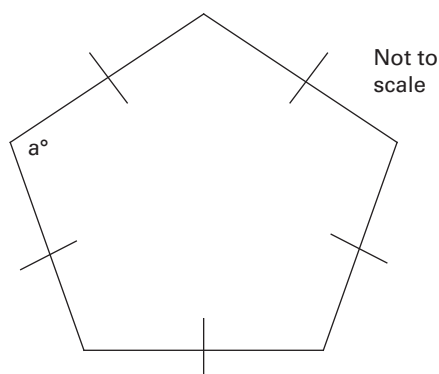
☐ 2.2 km

☐ 0.65 km

SHADE ONE BOX

QUESTION 26

A regular pentagon has an angle sum of 540° . What is the size of the angle a° ?

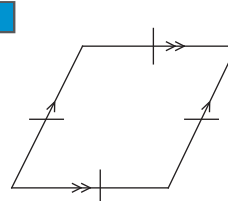
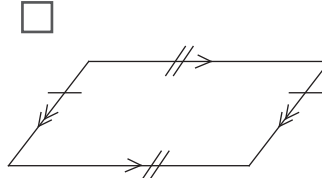
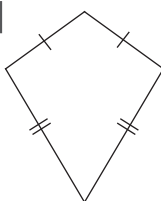
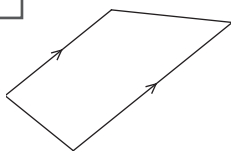


108°

WRITE YOUR OWN ANSWER

QUESTION 27

Which diagram shows a rhombus?

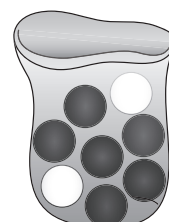
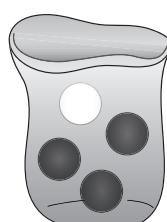
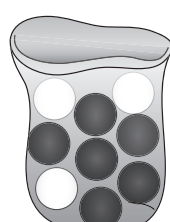
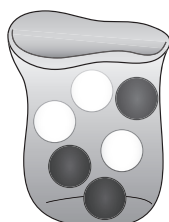


SHADE ONE BOX

QUESTION 28

Hannah randomly takes one ball from one of the bags shown below.

Which bag would Hannah need to use to have a one in three chance of drawing out a white ball?



SHADE ONE BOX

QUESTION 29**WRITE YOUR OWN ANSWER**

Students' total scores for correct answers in a spelling quiz of ten questions are shown below:

7, 5, 6, 4, 2, 7, 6, 2, 3, 7, 7, 6.

What is the modal score?

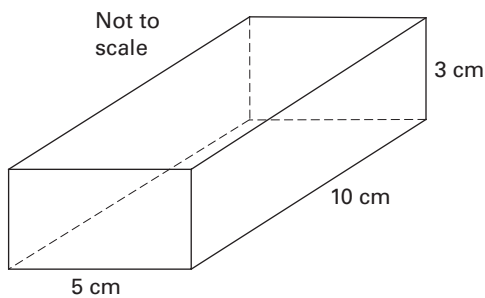
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QUESTION 30**SHADE ONE BOX**

Last month it rained on 6 days and was sunny on 24 days. For what percentage of the month did it rain?

☐ 80%☐ 75%☐ 25%☒ 20%**QUESTION 31****WRITE YOUR OWN ANSWER**

A rectangular prism is shown below.

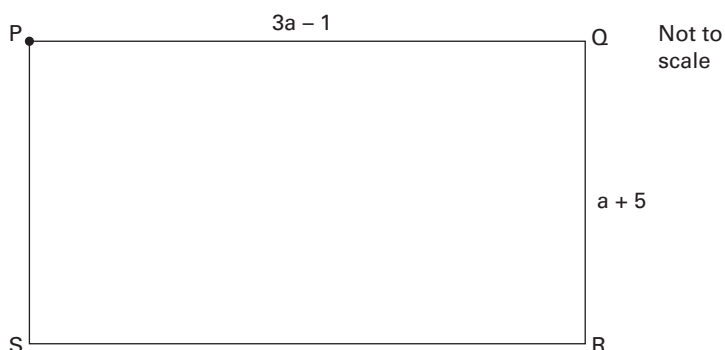


What is the surface area of this rectangular prism?

190 cm²

QUESTION 32**WRITE YOUR OWN ANSWER**

PQRS is a rectangle. If $PQ = 2 \times QR$, what is the value of a ?



$a =$ 11

Test 3: Non-calculator



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QUESTION 1

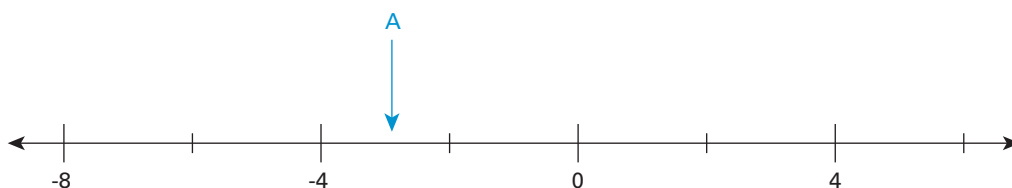
$$3x \times 4x = ?$$

☐ $7x$ ☐ $12x$ ☐ $7x^2$ ☒ $12x^2$

SHADE ONE BOX

QUESTION 2

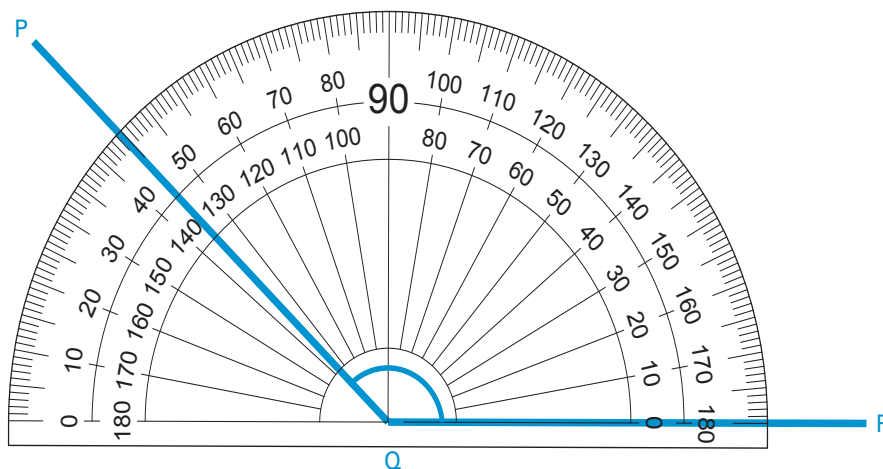
The arrow points to a position on the number line. What number is represented by A?



-3

QUESTION 3

What is the size of angle PQR?



135°