

MESHA - Year 8 Mathematics - Term 2, 2026

Instructions:

- Use a pencil or dark pen to fill in your answer.
- Fill in one circle completely per question.
- Do not write on the QR code, black corner squares, or anywhere outside your answers.

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Total Marks: 32

Section A

Question 1

[1 mark]

Which number is 100 times larger than 0.036?

- A. ☐ 0.00036
 - B. ☐ 0.36
 - C. ☐ 3.6
 - D. ☐ 36
-

Question 2

[1 mark]

Calculate:

$$-8 - (-13)$$

- A. ☐ -21
- B. ☐ -5
- C. ☐ 5
- D. ☐ 21

Question 3

[1 mark]

Which fraction is **smallest**?

A. ☐ $\frac{2}{5}$

B. ☐ $\frac{3}{10}$

C. ☐ $\frac{1}{3}$

D. ☐ $\frac{4}{15}$

Question 4

[1 mark]

Evaluate:

$$5 + 2(9 - 4)$$

A. ☐ 15

B. ☐ 19

C. ☐ 23

D. ☐ 28

Question 5

[1 mark]

A factory production line makes items at a steady rate of 48 items per hour.

How many items are produced in 7 hours and 40 minutes?

A. ☐ 368

B. ☐ 355

C. ☐ 336

D. ☐ 320

Question 6

[1 mark]

Simplify:

$$3x + 5x - 4$$

- A. ☐ $8x - 4$
- B. ☐ $3x + 5x - 4$
- C. ☐ $8x$
- D. ☐ $x - 4$
-

Question 7

[1 mark]

If $x = -2$, find the value of:

$$2x^2 - 3x$$

- A. ☐ -14
- B. ☐ -2
- C. ☐ 10
- D. ☐ 14
-

Question 8

[1 mark]

Solve:

$$4x = 28$$

- A. ☐ 6
- B. ☐ 7
- C. ☐ 24
- D. ☐ 112

Question 9

[1 mark]

Given that:

$$2x + 5 = 17$$

What is the value of $10 - x$?

- A. ☐ 6
 - B. ☐ 4
 - C. ☐ -2
 - D. ☐ 9
-

Question 10

[1 mark]

Which expression represents **three less than five times an unknown number**?

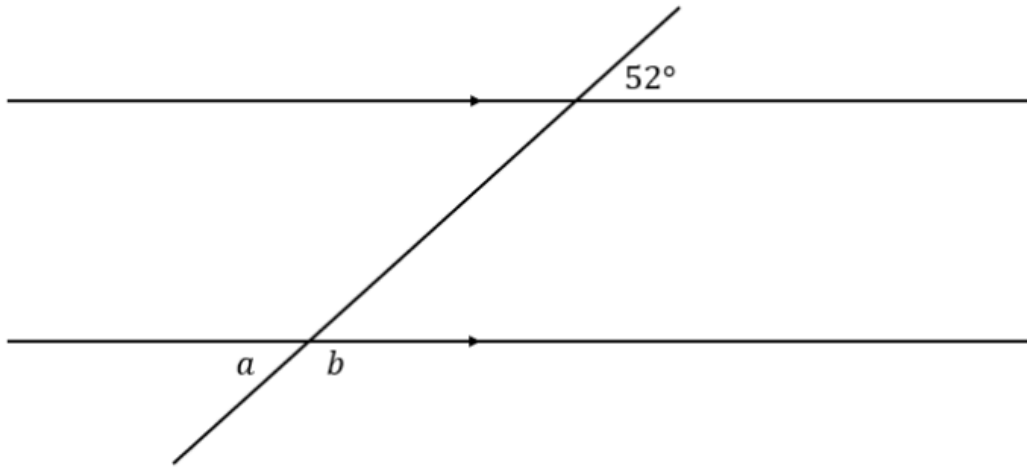
- A. ☐ $5x - 3$
- B. ☐ $3 - 5x$
- C. ☐ $5(x - 3)$
- D. ☐ $3x - 5$

Question 11

[1 mark]

The diagram shows two parallel lines with a third straight line crossing them.

Three of the angles are labelled 52° , a , and b .



What are the values of a and b ?

- A. ☐ $a = 128^\circ$, $b = 52^\circ$
 - B. ☐ $a = 52^\circ$, $b = 128^\circ$
 - C. ☐ $a = 52^\circ$, $b = 38^\circ$
 - D. ☐ $a = 38^\circ$, $b = 52^\circ$
-

Question 12

[1 mark]

During a sale, all items in a shop are discounted by 15% .

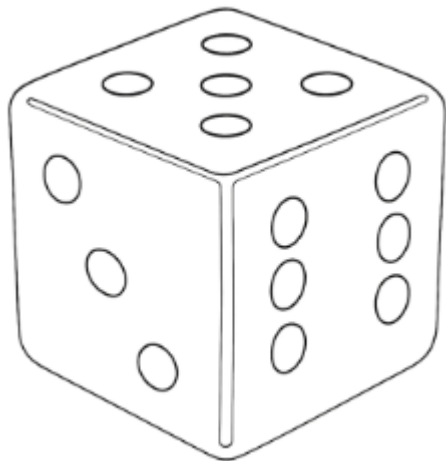
How much will a shirt that was originally \$80 cost after this discount?

- A. ☐ \$12
- B. ☐ \$65
- C. ☐ \$68
- D. ☐ \$72

Question 13

[1 mark]

A fair dice has six sides numbered one to six.



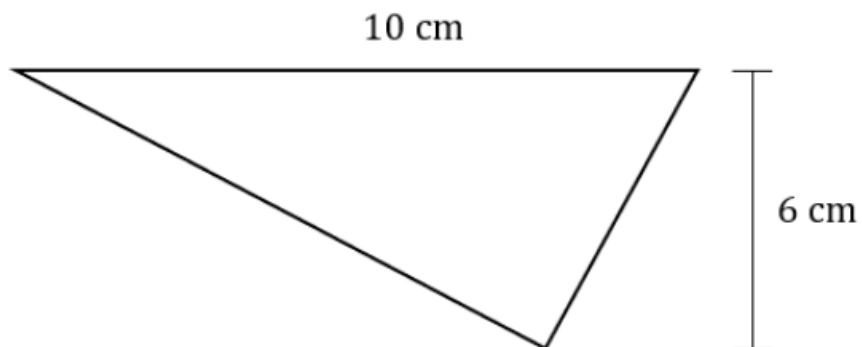
What is the probability of rolling a number that is greater than 2?

- A. $\frac{1}{2}$
- B. $\frac{2}{3}$
- C. $\frac{4}{5}$
- D. $\frac{2}{6}$

Question 14

[1 mark]

The diagram shows a shape.



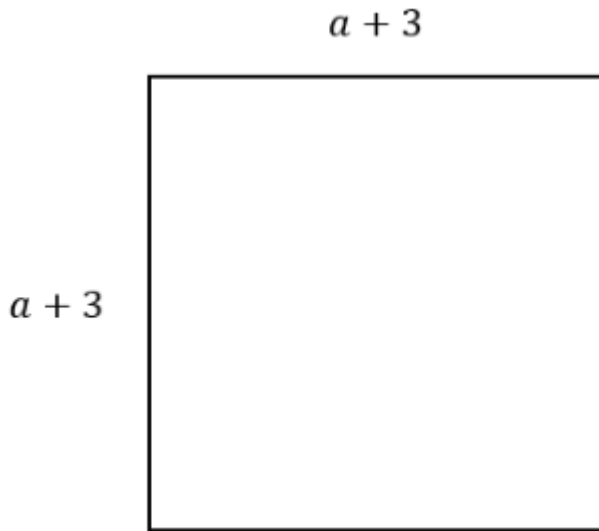
What is the **area** of the shape?

- A. ☐ 16cm^2
- B. ☐ 30cm^2
- C. ☐ 60cm^2
- D. ☐ 120cm^2

Question 15

[1 mark]

A square has sides of length $a + 3$ as shown.



What is the area of the square in terms of a ?

- A. ☐ $a^2 + 9$
 - B. ☐ $a^2 + 3$
 - C. ☐ $a^2 + 6a$
 - D. ☐ $a^2 + 6a + 9$
-

Question 16

[1 mark]

A number is **squared**, then **7 is subtracted**.

The result is 57.

What is the number?

- A. ☐ 4
- B. ☐ 7
- C. ☐ 8
- D. ☐ 12

Section B

Question 17

[1 mark]

Dion completes the following calculation:

$$0.25 \times 0.2$$

His answer is equivalent to

- A. ☐ $\frac{1}{2}$
 - B. ☐ $\frac{1}{5}$
 - C. ☐ $\frac{1}{10}$
 - D. ☐ $\frac{1}{20}$
-

Question 18

[1 mark]

A jacket costs \$96 and is discounted by 25%.

What is the sale price?

- A. ☐ \$68
- B. ☐ \$70
- C. ☐ \$72
- D. ☐ \$76

Question 19

[1 mark]

The population of a rural town increases by 5% so that it is now 924

What was the original population?

- A. ☐ 877
 - B. ☐ 878
 - C. ☐ 880
 - D. ☐ 973
-

Question 20

[1 mark]

Given that:

$$3(x - 4) = 21$$

Which statement is true?

- A. ☐ $x < 10$
 - B. ☐ $x = 10$
 - C. ☐ $x > 10$
 - D. ☐ x can have any value
-

Question 21

[1 mark]

A car travels 315 km using 21 litres of fuel.

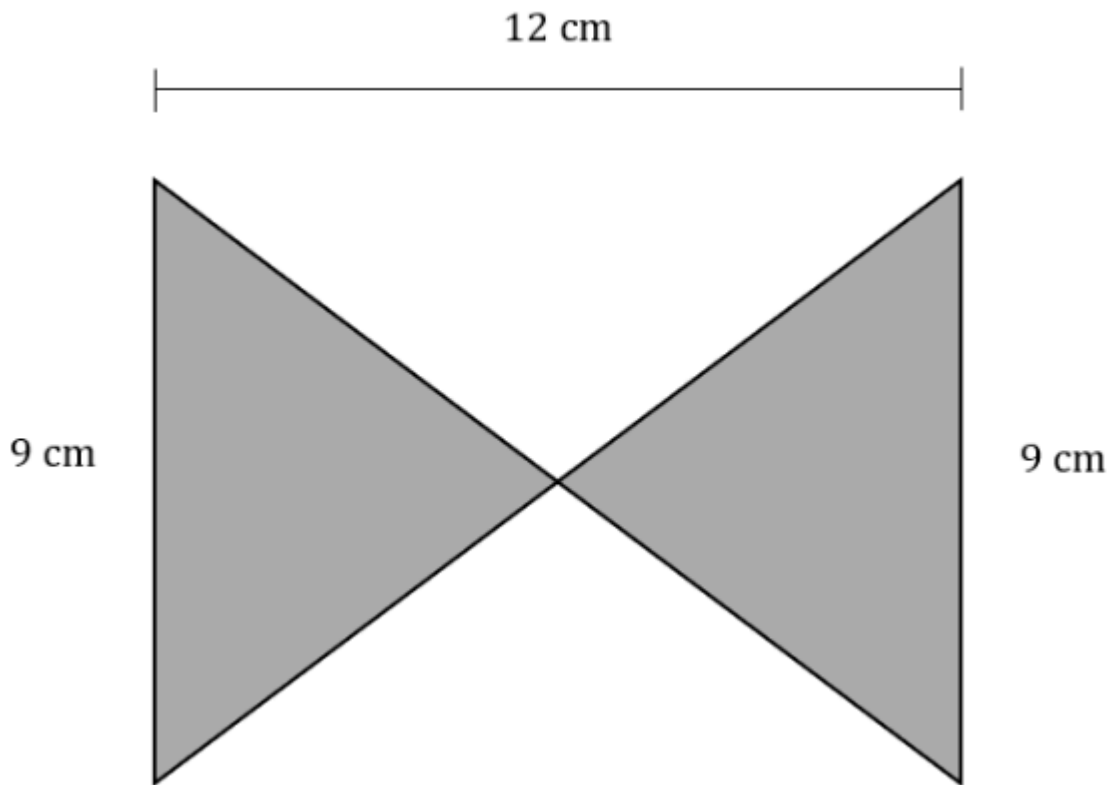
What is the fuel efficiency in km per litre?

- A. ☐ 0.07
- B. ☐ 10
- C. ☐ 15
- D. ☐ 336

Question 22

[1 mark]

Find the area that is shaded in the diagram below



- A. ☐ 54cm^2
- B. ☐ 108cm^2
- C. ☐ 27cm^2
- D. ☐ 72cm^2

Question 23

[1 mark]

The mean of 5 numbers is 18.

What is the total of the numbers?

- A. ☐ 23
 - B. ☐ 90
 - C. ☐ 95
 - D. ☐ 180
-

Question 24

[1 mark]

Solve the inequality:

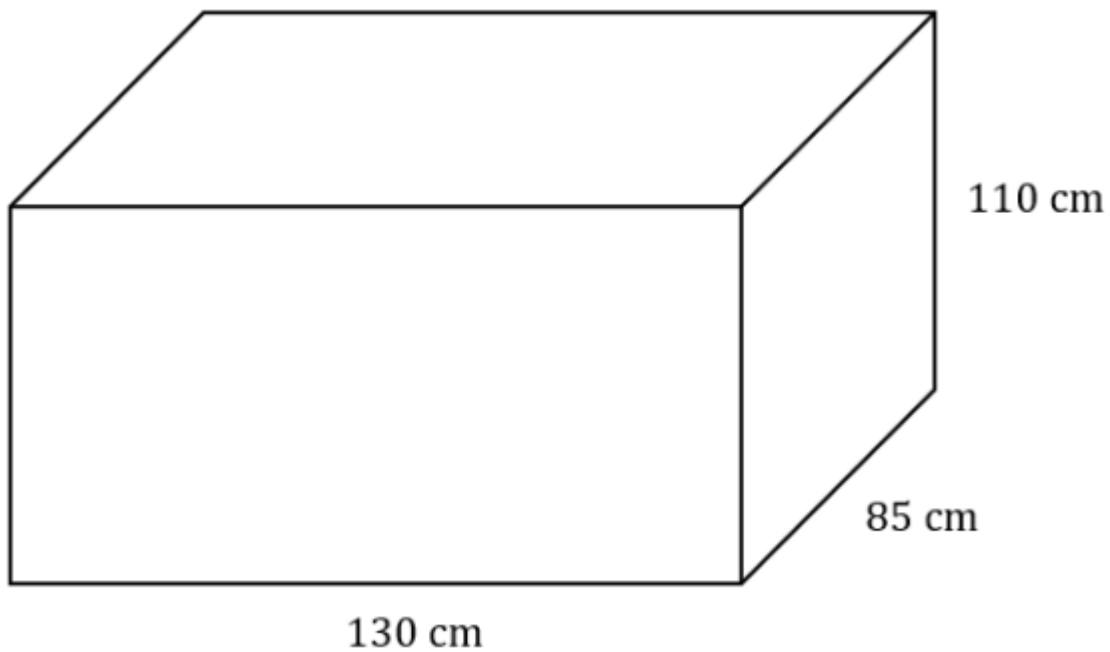
$$5x - 3 \leq 17$$

- A. ☐ $x \leq 4$
- B. ☐ $x \leq 5$
- C. ☐ $x \geq 4$
- D. ☐ $x \geq 5$

Question 25

[1 mark]

The diagram below shows a water tank in the shape of a rectangular prism.



What is the volume of the tank in m^3 correct to two **decimal places**?

- A. ☐ $0.12m^3$
- B. ☐ $1.21m^3$
- C. ☐ $1.22m^3$
- D. ☐ $121.55m^3$

Question 26

[1 mark]

Which expression is equivalent to:

$$4(x + 2) - 3x$$

- A. ☐ $x + 8$
- B. ☐ $x + 2$
- C. ☐ $4x + 8$
- D. ☐ $x + 5$
-

Question 27

[1 mark]

A phone plan costs \$35 per month plus \$0.12 per minute.

Which expression represents the **total cost** per month, in dollars, for m minutes?

- A. ☐ $35m + 0.12$
- B. ☐ $35 + 0.12m$
- C. ☐ $0.12(35 + m)$
- D. ☐ $35(0.12 + m)$
-

Question 28

[1 mark]

Given that:

$$\frac{2x - 5}{3} = 7$$

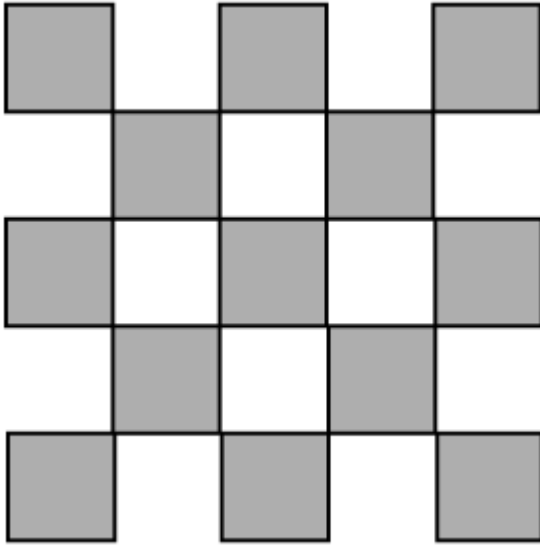
What is the value of $3x - 2$?

- A. ☐ 35
- B. ☐ 31
- C. ☐ 37
- D. ☐ 41

Question 29

[1 mark]

A shape is made from small grey squares as shown below



How many lines of symmetry does the shape have?

- A. ☐ 1
 - B. ☐ 2
 - C. ☐ 3
 - D. ☐ 4
-

Question 30

[1 mark]

A fast tap fills a tank in 6 minutes.

A slow tap fills the same tank in 12 minutes.

How long will it take to fill the tank if both taps are turned on together?

- A. ☐ 3 minutes
- B. ☐ 4minutes
- C. ☐ 6 minutes
- D. ☐ 18 minutes

Question 31

[1 mark]

The table shows part of a **Sydney Trains** timetable for trains travelling from Penrith to Central.

Train	Penrith	St Marys	Parramatta	Strathfield	Redfern	Central
A	6:48 am	6:56 am	7:10 am	7:24 am	7:31 am	7:34 am
B	6:58 am	7:06 am	7:20 am	7:34 am	7:41 am	7:44 am
C	7:08 am	7:16 am	7:30 am	7:44 am	7:51 am	7:54 am
D	7:18 am	7:26 am	7:40 am	7:54 am	8:01 am	8:04 am

Romina boards the train at **Parramatta** and needs to arrive at **Redfern by 7:45 am**.

It takes Romina **22 minutes** to walk to Parramatta Station from her home, and she likes to arrive at the station **10 minutes** before the train departs.

What time does Romina need to leave home?

- A. ☐ 6:38 am
- B. ☐ 6:48 am
- C. ☐ 6:52 am
- D. ☐ 6:56 am

Question 32

[1 mark]

A fundraiser raises \$3600 and shares it equally between 9 groups.

Each group spends \$275.

How much money does each group have left?

- A. ☐ \$100
- B. ☐ \$125
- C. ☐ \$150
- D. ☐ \$175