EXAM PAPER

Maths Year 7 — Practice Exam 4

PREVIEW
This file has the first 30 of the 60 questions in this paper. The rest is locked: it comes with a PrepNest plan, or with the paper itself for VCE.

Total time: 80 minutes

SECTIONS IN THIS PAPER

- Numeracy — non-calculator — 40 min (no calculator)
- Numeracy — calculator — 40 min (calculator allowed)

INSTRUCTIONS

Answer every question you can. Write your working in the space provided for long-answer questions. Marking guidance and full explanations are provided in the separate answer key.

Numeracy — non-calculator

40 minutes • No calculator

1. Which of these is equal to 0.6?

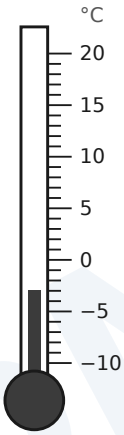
A. 0.06

B. 1/6

C. 3/5

D. 6/100

2. The thermometer shows the temperature at 6 am.
By midday the temperature had risen by 9 degrees.
What was the temperature at midday?



A. −12 °C

B. −6 °C

C. 6 °C

D. 12 °C

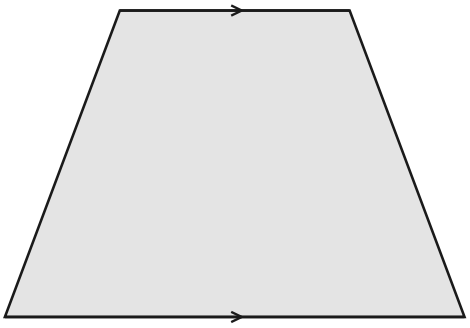
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3. Which shape is a rhombus?

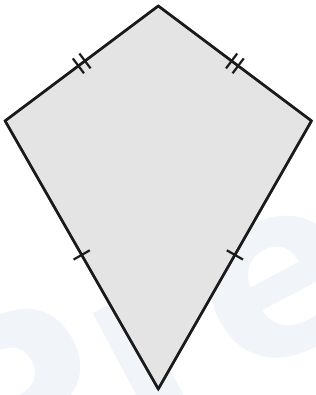
A



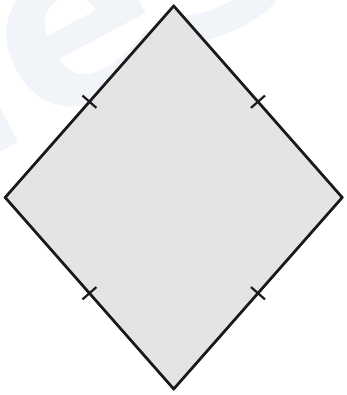
B



C



D



4. Concert tickets cost $d each.
Mia buys 4 tickets and pays a $3 booking fee.
Which expression gives the total cost in dollars?

A. 4 + d + 3

B. 3d + 4

C. 4(d + 3)

D. 4d + 3

5. How many millimetres are in 4.2 m?

A. 42

B. 420

C. 4200

D. 42 000

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6. What is 1.2×10^3?

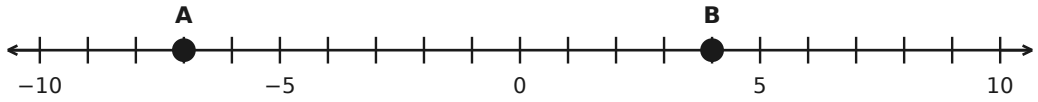
A. 12

B. 120

C. 1200

D. 12 000

7. How far apart are the numbers at A and B on the number line?



8. How many 1 cm cubes fit in a box that is 5 cm long, 4 cm wide and 2 cm high?

A. 11

B. 20

C. 40

D. 80

9. Which expression means “5 less than three times n”?

A. $3n - 5$

B. $5 - 3n$

C. $3(n - 5)$

D. $3 - 5n$

10. A triangle has angles of 30°, 60° and 90°. Which describes the triangle?

A. acute and scalene

B. right-angled and isosceles

C. obtuse and isosceles

D. right-angled and scalene

11. If $n + n + n + 4 = 19$, what is the value of n?

A. 5

B. 6

C. 7.67

D. 15

12. What is 3.4762 rounded to two decimal places?

A. 3.47

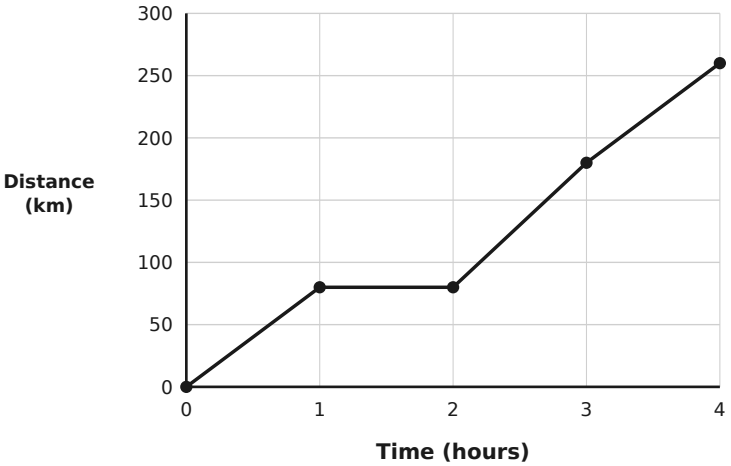
B. 3.476

C. 3.48

D. 3.5

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13. The graph shows a car trip.
During which hour did the car stop?



A. 0 to 1 hours

B. 1 to 2 hours

C. 2 to 3 hours

D. 3 to 4 hours

14. What is −7 + 12?

15. A 24-hour clock shows 23:40. What time will it show 45 minutes later?

A. 00:25

B. 12:25

C. 23:85

D. 24:25

16. Two coins are tossed at the same time.
Which list shows all the possible outcomes?

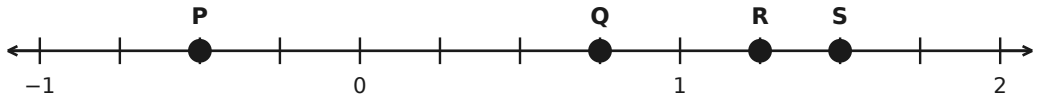
A. HH, TT

B. HH, HT, TT

C. HH, HT, TH, TT

D. H, T

17. Which point on the number line is at 5/4?



A. P

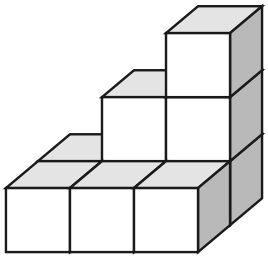
B. Q

C. R

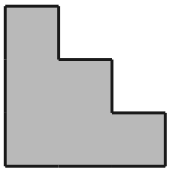
D. S

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18. Which drawing shows the view of this model from the front?



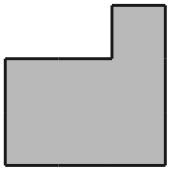
A



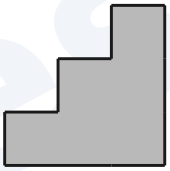
B



C

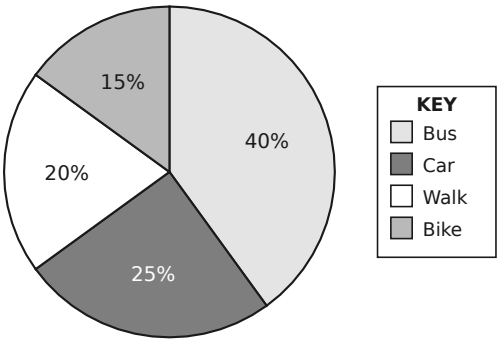


D



19. What value of m makes this equation true?
$5m - 7 = 23$

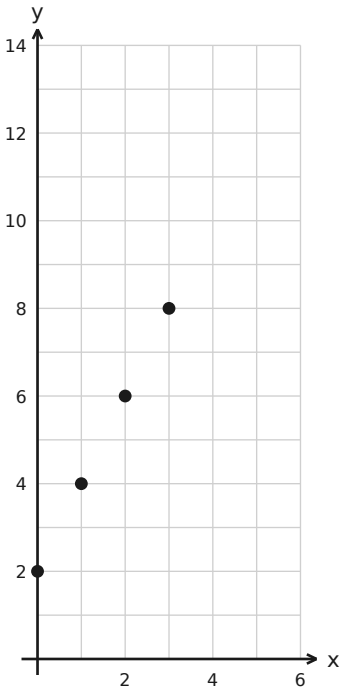
20. 400 students were asked how they travel to school.
How many of them walk?



students

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21. The points follow a pattern.
If the pattern continues, what is the y-value of the point where x = 5?



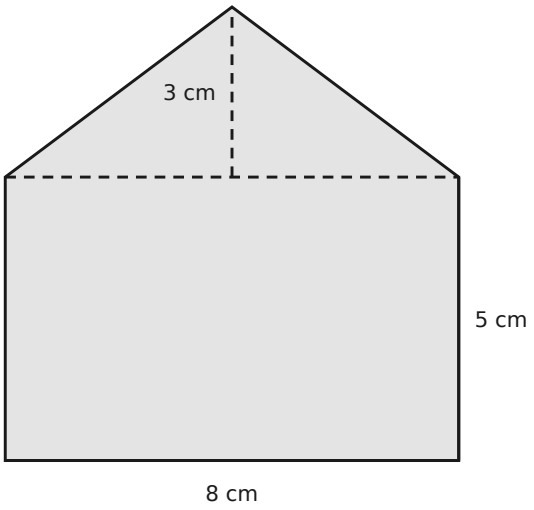
A. 10

B. 11

C. 12

D. 14

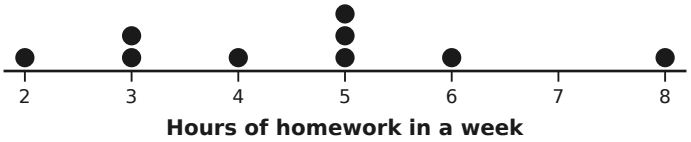
22. The shape is a rectangle with a triangle on top.
What is the area of the whole shape, in square centimetres?



not to scale

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23. The dot plot shows how many hours of homework 9 students did last week.
What is the median?



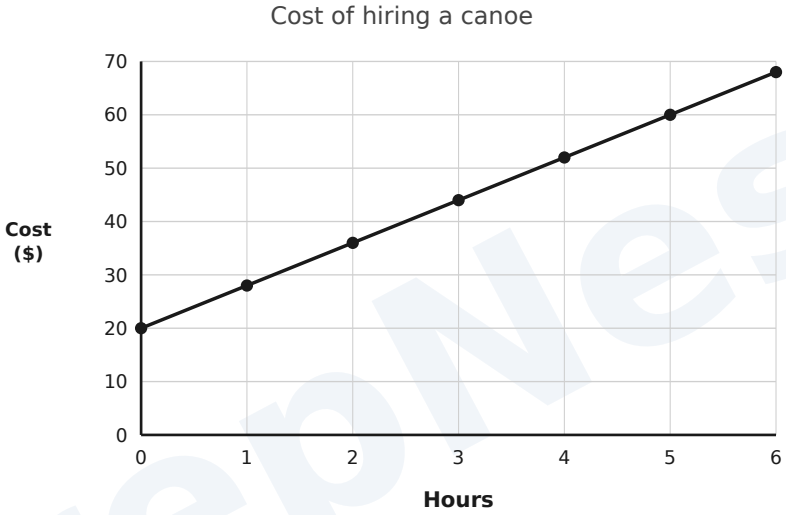
A. 4

B. 4.6

C. 5

D. 6

24. The graph shows the cost of hiring a canoe.
How much does it cost to hire a canoe for 5 hours?



$ ____

25. Which pack gives the lowest price for each bar?

Muesli bars

Pack	Price
3 bars	$2.40
5 bars	$3.75
10 bars	$7.00

A. the 10-bar pack

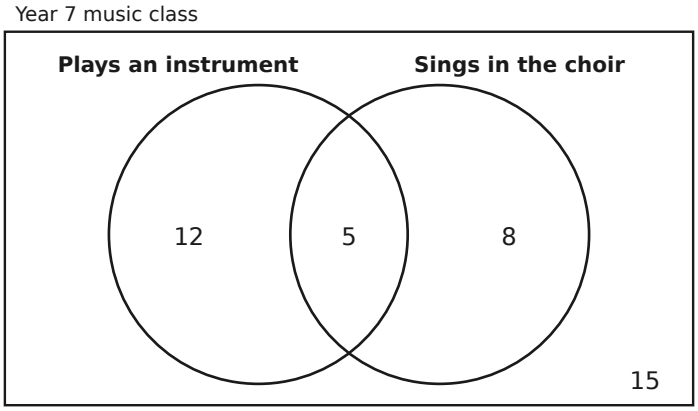
B. the 3-bar pack

C. the 5-bar pack

D. they all cost the same per bar

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26. A student from the class is chosen at random.
What is the probability that they sing in the choir but do not play an instrument?



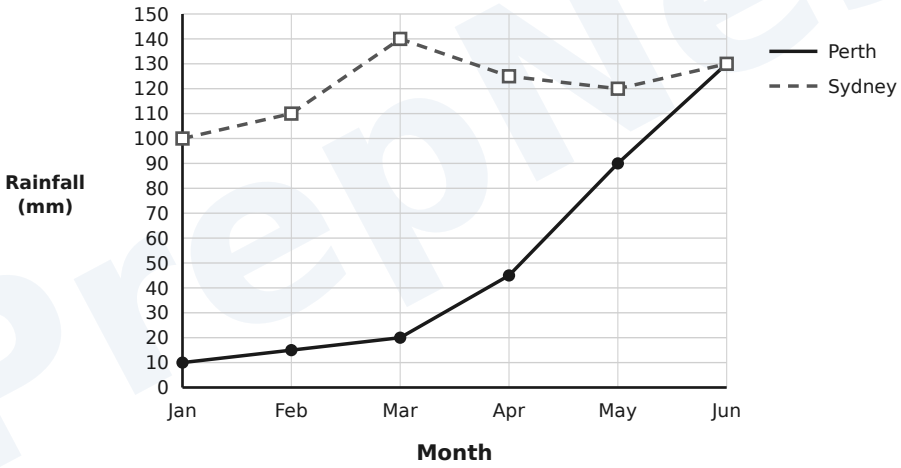
A. 1/5

B. 13/40

C. 8/32

D. 1/8

27. The graph shows the average monthly rainfall in two cities.
In which month was the difference in rainfall between the cities greatest?



A. January

B. February

C. March

D. June

28. When it is 4 pm in Perth, it is 6 pm in Sydney. A plane leaves Perth at 10 am Perth time and the flight takes 4 hours.
What is the time in Sydney when it lands?

A. 2 pm

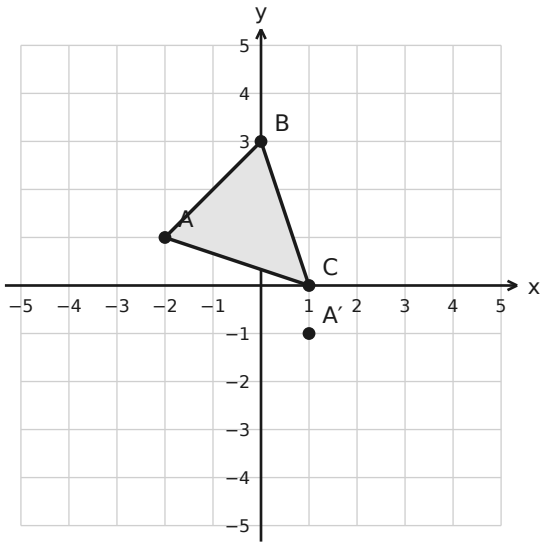
B. 4 pm

C. 6 pm

D. 12 pm

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29. Triangle ABC is translated so that A moves to A′.
Where does B move to?



A. (−3, 5)

B. (3, 1)

C. (2, 1)

D. (3, 5)

30. A spinner was spun 40 times.
The table shows the results.
Based on these results, how many times would you expect blue in 200 spins?

Colour	Frequency
Red	14
Blue	22
Green	4

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31.

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57.

58.

59.

60.

30 questions locked, up to question 60.

PREVIEW

That’s the end of the preview

You’ve seen the first 30 of the 60 questions in Maths Year 7 — Practice Exam 4. The full paper is worth 60 marks.

STILL TO COME	QUESTIONS	MARKS
Numeracy — calculator	30	30

The full paper comes with

- Every question, printed exactly like the ones in this preview
- The complete answer key, with the working behind every mark
- A topic report after marking, showing what to practice next

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