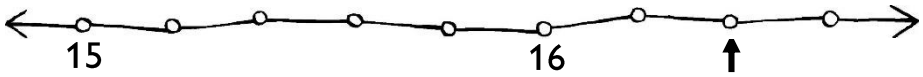
Name:_____ Class:_____

- Complete all answers on this question paper.
- Calculators may not be used.

1. What numbers belong on the number lines at the position that the arrows are pointing to?

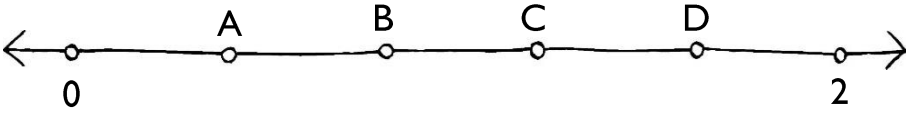
a)

(1)

b) 

(1)

2. Study the number line.



a) Which position best indicates $\frac{4}{5}$ on the number line? *Tick the correct option.*

☐ A ☐ B ☐ C ☐ D (1)

b) Which position best indicates 1,2 on the number line? *Tick the correct option.*

☐ A ☐ B ☐ C ☐ D (1)

3. Complete. *Fill in the answer only.*

a) 17 872 = 10 000 + _____ + 800 + 70 + 2 (1)

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b) _____ = 5400 – 3700 (1)

c) 344 + 58 = _____ (1)

d) $\frac{7}{9}$ of 54 = _____ (1)

e) 12,4 = _____ + 6,8 (1)

f) R4 – R1,26 = R_____ (1)

4. Which numbers are greater than $1\frac{1}{2}$ and less than 2? *Tick all the correct options.*

☐ $\frac{3}{2}$ ☐ $\frac{8}{5}$ ☐ $\frac{19}{9}$ ☐ $\frac{7}{4}$ (2)

5. Which number is a multiple of both 3 and of 5. *Tick the correct option.*

☐ 10 ☐ 12 ☐ 30 ☐ 50 (1)

6. A T-shirt costs R25. How many T-shirts can you buy with R440? *Show your working.*

_____ T-shirts (2)

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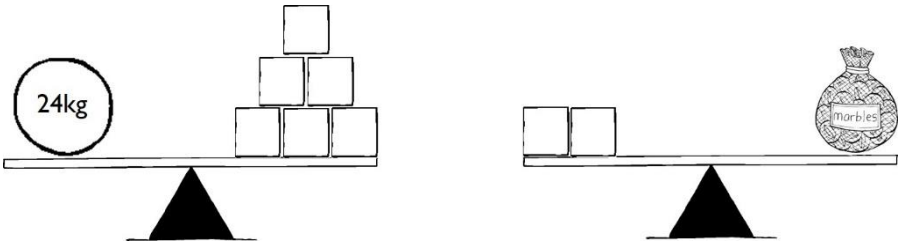
7. Mrs Krige has R2 600. She wants to share the money equally among her 4 children. How much money will each child get? *Show your working.*

R _____ (2)

8. 20 vienna sausages are shared equally by a number of children. Each child gets $3\frac{1}{3}$ sausages. How many children are there? *Show your working.*

_____ children (2)

9. How much does the bag of marbles weigh? *Show your working.*



_____ kg (2)

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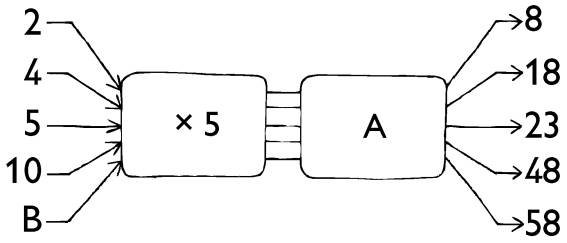
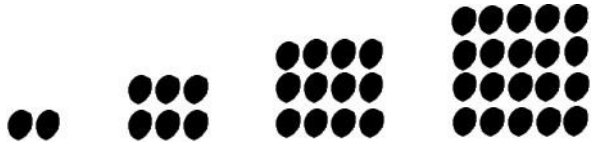
10. Determine the rule for A and the value of B in the flow diagram.



A: _____

B: _____ (2)

11. Palesa makes pictures with dots. The first four pictures make a pattern.



Picture 1 Picture 2 Picture 3 Picture 4

a) How many dots would Palesa draw in Picture 5?

(1)

b) Which formula(s) could be used to calculate the number of dots in any picture? *Tick all the correct options.*

☐ Number of dots = Picture number × 5

☐ Number of dots = Picture number + 5

☐ Number of dots = Picture number × (1 + Picture number)

☐ Number of dots = Picture number × Picture number + Picture number (2)

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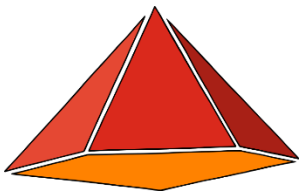
12.



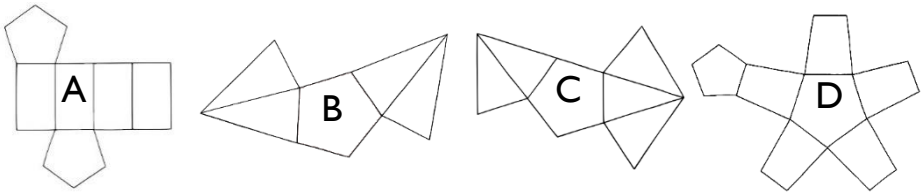
a) What is the name of this polyhedron?

(1)

b) How many vertices does this polyhedron have?

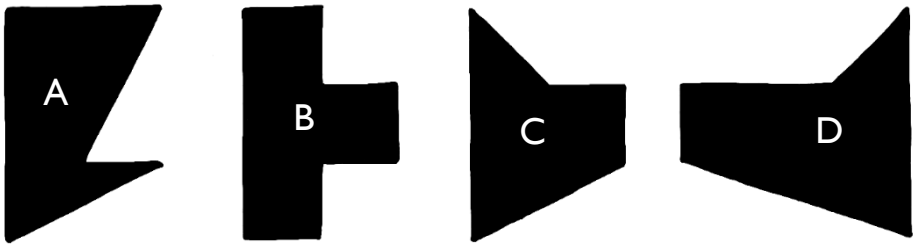
_____ vertices (1)

c) Which is the correct net of this polyhedron. *Tick the correct option.*



☐ A ☐ B ☐ C ☐ D (1)

13. Which shape is symmetrical? *Tick the correct option.*



☐ A ☐ B ☐ C ☐ D (1)

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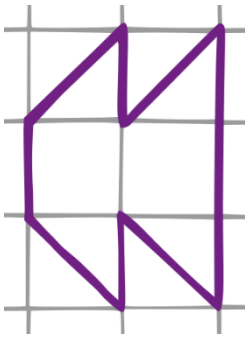
14. What is the name of the shape? *Tick the correct option.*

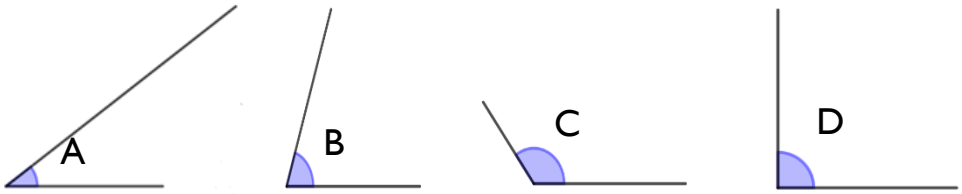


☐ hexagon ☐ heptagon

☐ octagon ☐ nonagon

(1)

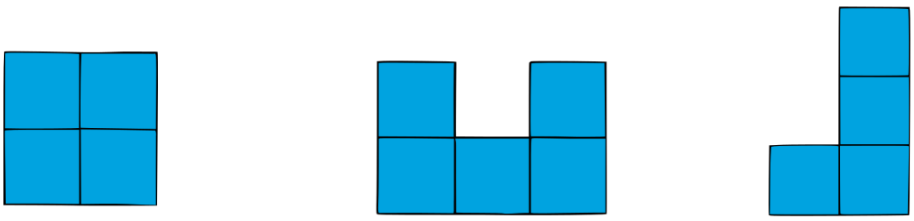
15. Study the angles without using a protractor.



Which angle is the smallest? *Tick the correct option.*

☐ A ☐ B ☐ C ☐ D (1)

16. What is the least number of cubes that can be used to build an arrangement with the following views?



Side view Front view Top view

_____ cubes (1)

17. How many years?

9 centuries + 4 decades + 3 years = _____ years (1)

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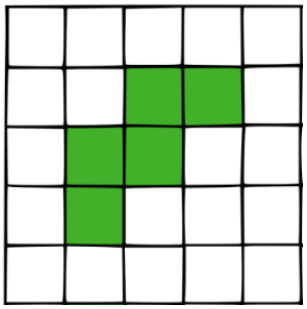
18. Write "10 minutes to 4 in the afternoon" in 24-hour time.

(1)

19. The lengths of the first 3 songs on a playlist are given as 2:23; 1:58; 3:14. How much time is that altogether in minutes and seconds? *Show your working.*

_____ minutes and _____ seconds (2)

20. Determine the perimeter of the shaded polygon.

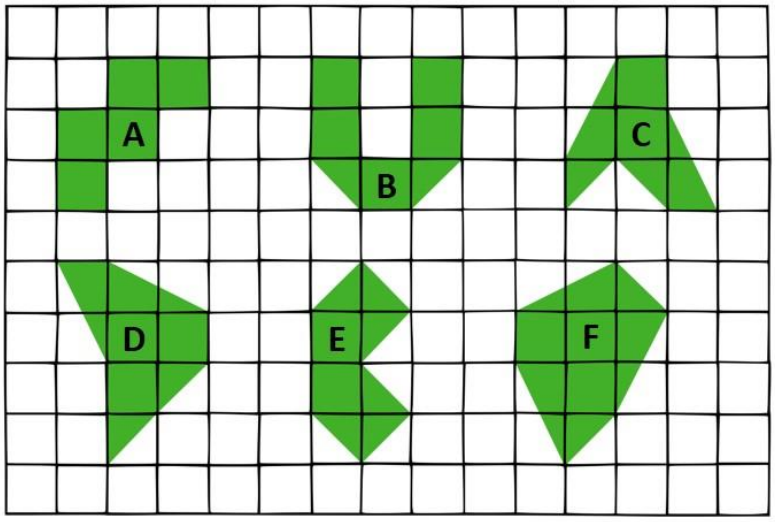


_____ units

(1)

21. Which polygon has the largest area? *Tick the correct option.*

- ☐ A
- ☐ B
- ☐ C
- ☐ D
- ☐ E
- ☐ F



(1)

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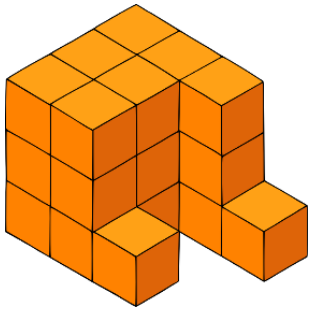
22. Determine the volume of this prism.

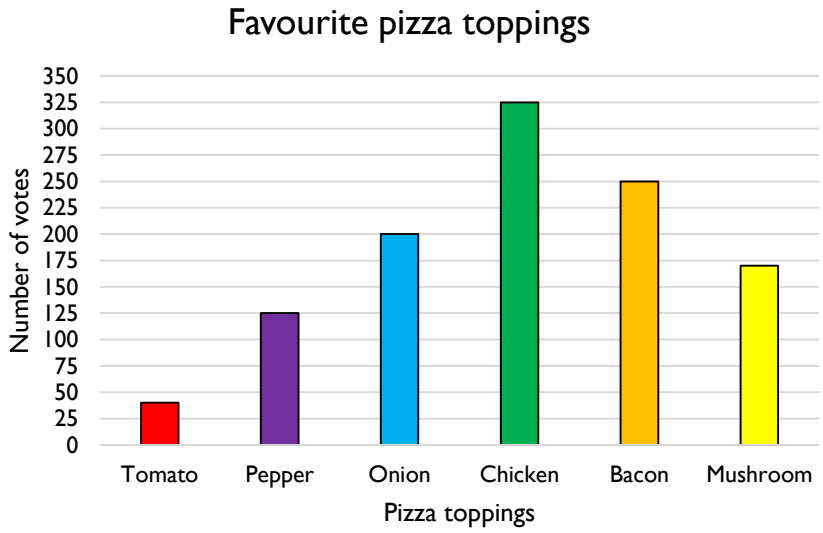


_____ cubes (1)

23. The length of a man's stride is 1 metre. How many strides will he have to take to walk 2,09 kilometres?

_____ strides (1)

24. Yummy Pizzas are best in making pizzas with six different toppings. They took a survey about customers' favourite toppings and recorded the results on a bar graph.



a) How many customers voted for Pepper as their favourite topping?

_____ customers (1)

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b) List the toppings in order from most favourite to least favourite?

(1)

c) How many more customers voted for Chicken than Onion as their favourite topping?

_____ customers (1)

d) Which statement correctly describes the data represented in the bar graph? *Tick the correct option.*

- ☐ Meat toppings make up approximately half of the total votes counted.
- ☐ Mushroom is the most popular non-meat topping.
- ☐ The number of votes for Onion is about that of Pepper and Tomato combined.
- ☐ Half the number of people voted for Onion compared to Chicken. (1)

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