



TeenEagle

MATHS

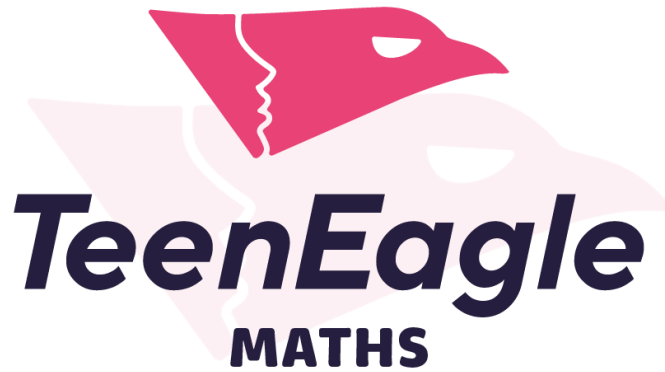
Category - 2
Grade 3 - 4

PRACTICE QUESTIONS

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Category - 2
Grade 3 - 4

Sample Questions



Topics this category covers:

Topics		
1	Logical Thinking	Balance problem Basic sequences Basic number and figure patterns Basic logical age and date problems
2	Numbers and Operations	Adding and subtracting Place value of ones, tens and hundreds Rounding numbers to the nearest 10 or 100 Basic multiplication and division Fractions as parts of a whole
3	Geometry	Classification of shapes by their properties Partitioning of shapes into equal parts Area and perimeter of rectangles
4	Measurement	Estimating and measuring masses Measuring lengths Estimating and measuring volumes of liquids Telling time to the nearest minute and time word problems

1. (1 - Logical Thinking)

3 points

Diana and Roma are siblings. If Diana is 12 years old and the Roma is 5 years younger than Diana, how old is Roma?

- (A) 5 years old (B) 17 years old (C) 7 years old (D) 15 years old

2. (1 - Logical Thinking)

3 points

The pattern of the letters are given below:

ABHWATTABHWATTABHWATTABHWATTABHWATT

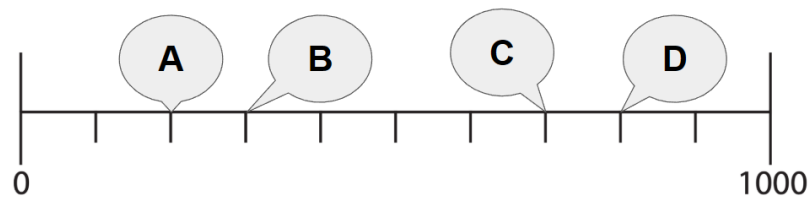
What is the pattern that repeats?

- (A) **ABHWATT**
(B) **ABHW**
(C) **ABHWAT**
(D) **ABHWATTA**

3. (2 - Numbers and Operations)

3 points

Mark 300 and 700 from the number line provided in the figure below:



- (A) A and B (B) A and C (C) B and D (D) B and C

4. (2 - Numbers and Operations)

3 points

Round each number to the nearest 10:

$$52 = \boxed{a}$$

$$48 = \boxed{b}$$

$$74 = \boxed{c}$$

$$69 = \boxed{d}$$

- (A) $a = 52$, $b = 48$, $c = 74$, $d = 69$
- (B) $a = 60$, $b = 50$, $c = 80$, $d = 70$
- (C) $a = 50$, $b = 40$, $c = 70$, $d = 60$
- (D) $a = 50$, $b = 50$, $c = 70$, $d = 70$

5. (2 - Numbers and Operations)

3 points

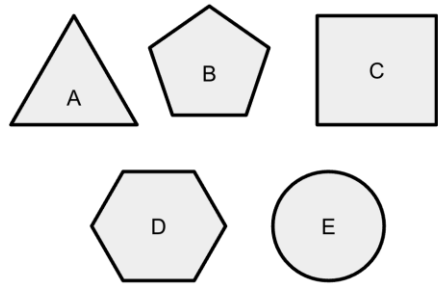
The total area of the garden measures 100 square meters. If half of this area is decided to plant strawberries, calculate the specific area that must be used for strawberry cultivation.

- (A) 100 square meters
- (B) 50 square meters
- (C) 25 square meters
- (D) 200 square meters

6. (3 - Geometry)

3 points

Identify the appropriate matching of names and shapes.



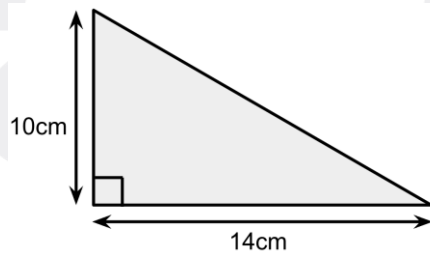
1. Square
2. Triangle
3. Pentagon
4. Hexagon
5. Circle

- (A) 1 → C, 2 → A, 3 → B, 4 → D, 5 → E
(B) 1 → C, 2 → A, 3 → D, 4 → B, 5 → E
(C) 1 → A, 2 → B, 3 → C, 4 → D, 5 → E
(D) 1 → A, 2 → C, 3 → B, 4 → D, 5 → E

7. (3 - Geometry)

3 points

In the figure below a right triangle is given.



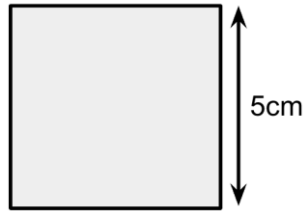
Find the area of the right triangle?

- (A) 140 cm² (B) 70 cm² (C) 280 cm² (D) 35 cm²

8. (3 - Geometry)

3 points

In the figure below a square is given.



Find the area and the perimeter of the square?

- (A) Area is 20 cm^2 and Perimeter is 25 cm
- (B) Area is 20 cm^2 and Perimeter is 20 cm
- (C) Area is 25 cm^2 and Perimeter is 25 cm
- (D) Area is 25 cm^2 and Perimeter is 20 cm

9. (4 - Measurement)

3 points

Calculate the followings:

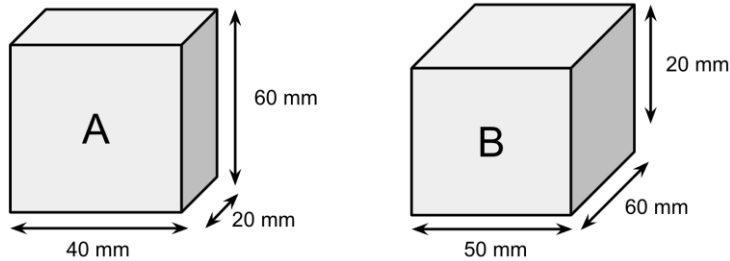
- A. 5^2
- B. 20^3
- C. 40^3
- D. 80^3

- (A) A $\rightarrow$ 25, B $\rightarrow$ 8000, C $\rightarrow$ 6400, D $\rightarrow$ 5120
- (B) A $\rightarrow$ 25, B $\rightarrow$ 800, C $\rightarrow$ 6400, D $\rightarrow$ 51200
- (C) A $\rightarrow$ 25, B $\rightarrow$ 8000, C $\rightarrow$ 64000, D $\rightarrow$ 512000
- (D) A $\rightarrow$ 25, B $\rightarrow$ 8000, C $\rightarrow$ 640000, D $\rightarrow$ 512000000

10. (4 - Measurement)

3 points

Two different cubes are given below.



What are the volumes of cubes?

- (A) Cube A = 48000 mm^2 , Cube B = 60000 mm^2
- (B) Cube A = 48 mm^3 , Cube B = 60 mm^3
- (C) Cube A = 480 cm^3 , Cube B = 600 cm^3
- (D) Cube A = 48000 mm^3 , Cube B = 6000 mm^3

11. (1 - Logical Thinking)

4 points

I am 10 years old. My brother is 3 years older than me. My sister is 2 years younger than me.

How old are my brother and sister?

- (A) My brother is 13 years old and my sister is 8 years old
- (B) My brother is 7 years old and my sister is 12 years old
- (C) My brother is 12 years old and my sister is 7 years old
- (D) My brother is 5 years old and my sister is 8 years old

12. (1 - Logical Thinking)

4 points

In the given figure below what is changing in pattern from left to right?



- (A) Add three squares each time
- (B) Add four squares each time

- (C) Add two squares each time
(D) No specific pattern can be identified

13. (2 - Numbers and Operations)

4 points

Complete the missing numbers

$$458 = \boxed{?} + \boxed{?} + \boxed{?}$$

$$791 = \boxed{?} + \boxed{?} + \boxed{?}$$

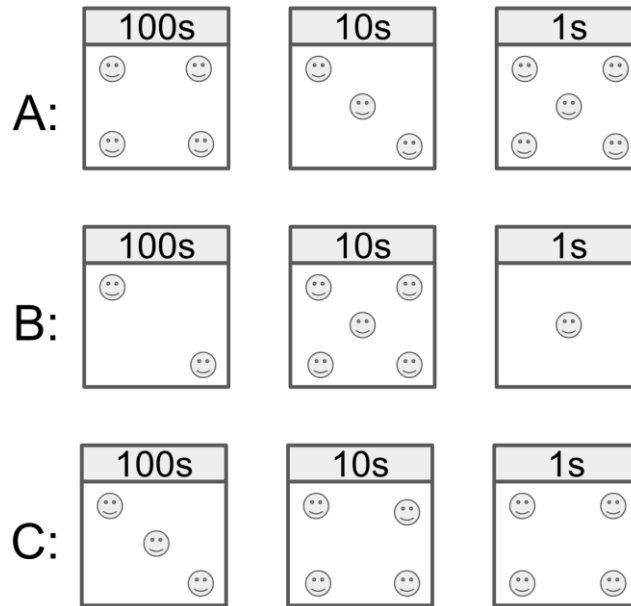
$$136 = \boxed{?} + \boxed{?} + \boxed{?}$$

- (A) $400 + 50 + 8$, $700 + 90 + 1$, $100 + 30 + 6$
(B) $400 + 500 + 800$, $700 + 900 + 100$, $100 + 300 + 600$
(C) $400 + 58 + 0$, $700 + 91 + 0$, $100 + 36 + 0$
(D) $100 + 350 + 8$, $100 + 690 + 1$, $100 + 30 + 6$

14. (2 - Numbers and Operations)

4 points

What 3-digit number is shown in each figure below:



- (A) A = 534, B = 152, C = 443
 (B) A = 400, B = 200, C = 300
 (C) A = 435, B = 251, C = 344
 (D) A = 423, B = 354, C = 514

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15. (2 - Numbers and Operations)

4 points

Find the answers to the questions in the blocks below:

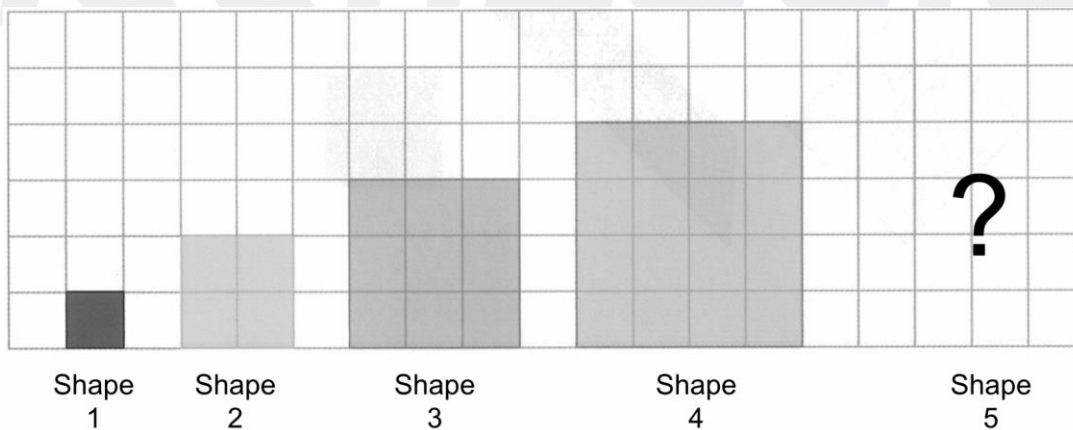
A: What is half of 40?	B: What is double 18?	C: What is half of 78?
D: What is double 9?	E: What is double 40?	F: What is half of 56?

- (A) A = 40, B = 18, C = 78, D = 9, E = 40, F = 56
 (B) A = 20, B = 36, C = 39, D = 18, E = 80, F = 28
 (C) A = 20, B = 9, C = 39, D = 18, E = 40, F = 28
 (D) A = 20, B = 36, C = 38, D = 18, E = 80, F = 26

16. (3 - Geometry)

4 points

Squares on the below figure are drawn on centimeter squared grids



From left to right the shapes are getting bigger.

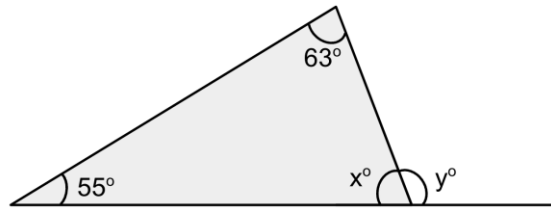
If it continues with the same pattern, what would be the perimeter of the Shape 5?

- (A) 12 cm² (B) 16 cm² (C) 20 cm² (D) 25 cm²

17. (3 - Geometry)

4 points

The triangle is given below.



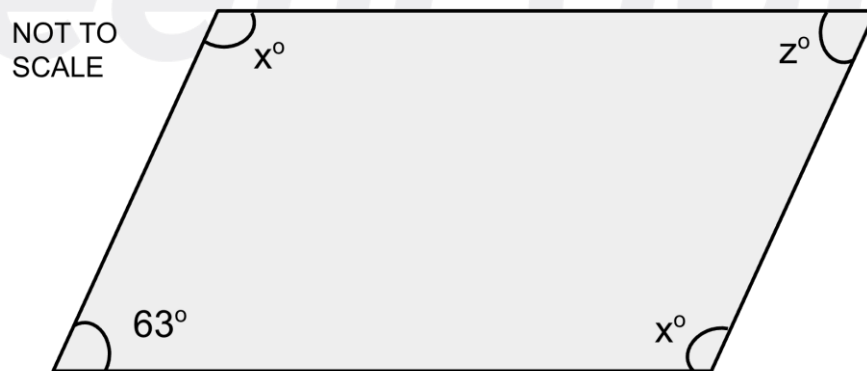
Find the value of x and y angles?

- (A) $x = 62^\circ$ and $y = 118^\circ$
- (B) $x = 242^\circ$ and $y = 62^\circ$
- (C) $x = 118^\circ$ and $y = 62^\circ$
- (D) $x = 62^\circ$ and $y = 28^\circ$

18. (3 - Geometry)

4 points

The rectangle is given below.



Find the value of $x + z$?

- (A) 117°
- (B) 180°
- (C) 153°
- (B) 243°

19. (4 - Measurement)

4 points

Jacob, Bob and Andrew are brothers. Jacob weighs half as much as Bob, and Andrew weighs four times as much as Jacob. If Andrew weighs 40 kilograms, how much does Bob weigh?

- (A) Bob weighs 10kg
- (B) Bob weighs 20kg
- (C) Bob weighs 30kg
- (D) Bob weighs 40kg

20. (4 - Measurement)

4 points

Complete the missing numbers with choosing the correct options:

2 minutes = seconds

3 hours 5 minutes = seconds

3 days = minutes

- (A) 120 seconds, 185 seconds, 4320 minutes
- (B) 120 seconds, 10805 seconds, 1440 minutes
- (C) 120 seconds, 10800 seconds, 1440 minutes
- (D) 120 seconds, 11100 seconds, 4320 minutes

21. (1 - Logical Thinking)

5 points

Last year Ali celebrated his 22nd Birthday.

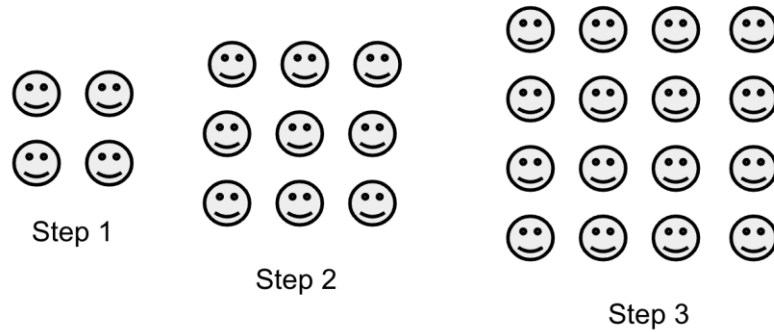
How old will he be in 3 years from now?

- (A) 25 years old (B) 26 years old (C) 19 years old (D) 15 years old

22. (1 - Logical Thinking)

5 points

Look at the steps and find the pattern.



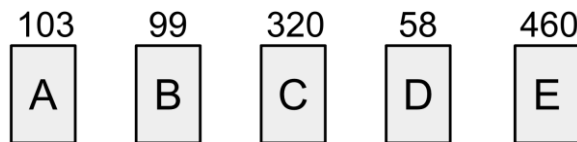
How many “smiling faces” are in the 4th step?

- (A) 25 “smiling faces”
- (B) 16 “smiling faces”
- (C) 9 “smiling faces”
- (D) 4 “smiling faces”

23. (2 - Numbers and Operations)

5 points

Each card has its numbers stated on the top of it.



Place cards in order from largest digits to smallest digits.

- (A) A, B, C, D, E
- (B) E, C, A, B, D
- (C) E, C, A, C, E
- (D) D, B, A, C, E

24. (2 - Numbers and Operations)

5 points

The boxes of sugar come in three different sizes 5kg, 7kg and 10kg to the candy shop. The shop has five 5kg boxes, four 7kg boxes and three 10kg boxes.

How many kg of sugar does the shop have?

- (A) The shop has 22kg of sugar
- (B) The shop has 110kg of sugar
- (C) The shop has 83kg of sugar
- (D) The shop has 88kg of sugar



25. (2 - Numbers and Operations)

5 points

Masha was given \$200 on her birthday. She used half of her money to buy clothes and half of the remaining to buy books.

How much money does she have left?

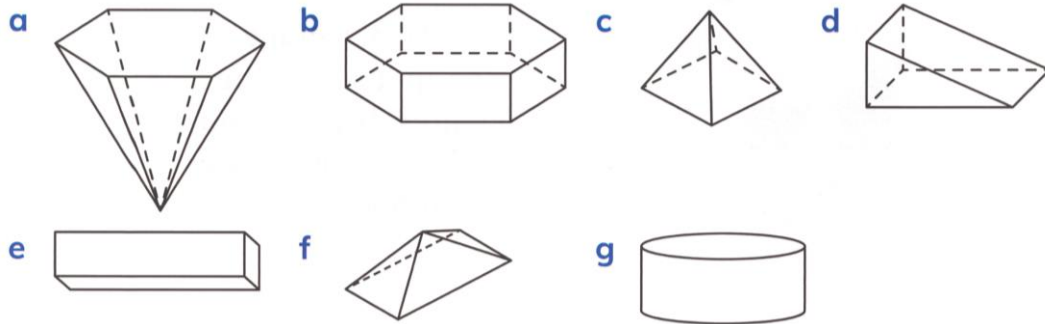
- (A) \$150 she has left
- (B) \$100 she has left
- (C) \$50 she has left
- (D) She has left NO money

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26. (3 - Geometry)

5 points

A prism has two ends that are the same shape and size.
It has flat faces.



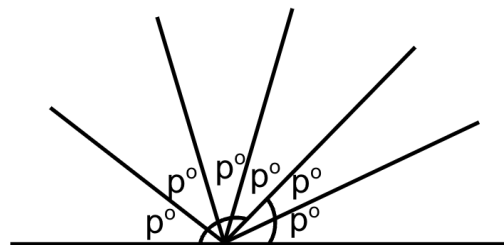
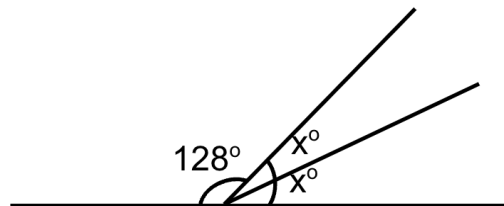
Which shapes are not prisms?

- (A) a, c, f and g (B) b, d and g (C) b, d, e and g (D) c, e, f and g

27. (3 - Geometry)

5 points

In the figure below there are two different shapes.



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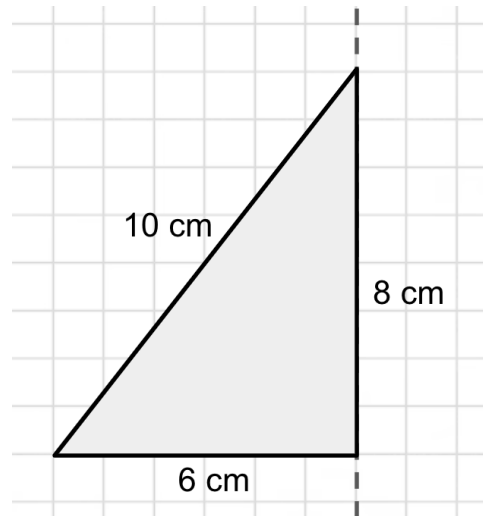
What is the average of the value of x and p ?

- (A) 56° (B) 232° (C) 82° (D) 28°

28. (3 - Geometry)

5 points

The diagram below shows a triangle in a centimeter squared grid line.



The diagram shows a right triangle with base 6 cm, height 8 cm, and hypotenuse 10 cm. The triangle is reflected over the dashed mirror line to form a trapezium.

Find the perimeter of the trapezium formed after reflection.

- (A) 20 cm (B) 32 cm (C) 48 cm (D) 56 cm

29. (4 - Measurement)

5 points

Max has Saturday extra classes at school. He left home at 9:05 AM. It took him 20 minutes to get to school. After having 3 hours and 35 minutes of math class and 1 hour and 20 minutes of swimming class he returns home.

What time does he return home if it took twice the amount of time as getting to school?

- (A) Time is 2:20 PM when he got home
(B) Time is 1:00 PM when he got home
(C) Time is 3:00 PM when he got home
(D) Time is 2:40 PM when he got home

30. (4 - Measurement)

5 points

Here is the timetable for grade 3A for Tuesday.

7:20	7:30	7:40	8:25	8:35	9:20	9:30	10:10
Arrival	Assembly	Math	Break	Science	Break	English	

Peter's favorite lessons are Math and English. How long does he spend, in total, in these lessons?

- (A) 1 hour and 15 minutes
- (B) 1 hour and 25 minutes
- (C) 1 hour and 20 minutes
- (D) Less than an hour



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Answer key (Exam Questions)

1. C
2. A
3. D
4. D
5. B
6. A
7. B
8. D
9. C
10. A
11. A
12. C
13. A
14. C
15. B
16. C
17. A
18. B
19. B
20. D
21. B
22. A
23. B
24. C
25. C
26. A
27. D
28. B
29. C
30. B



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