

SMETA MATHEMATICS OLYMPIAD

Question Paper — Grade 3-4

Total Questions: 25 · Time: 60 minutes · Max Marks: 100

Instructions:

Read each question carefully. Each question has four options (A, B, C, D) — choose only one correct answer. Use a pencil or a blue/black pen. No calculators are allowed. All the best!

1. The number “two thousand four hundred and sixteen” is written in figures as:
A. 2,164
B. 2,246
C. 2,401
D. 2,416
2. In the number 4,738, what is the value of the digit 7?
A. 7
B. 70
C. 700
D. 7,000
3. Which of these numbers is the greatest?
A. 3,458
B. 3,548
C. 3,584
D. 3,845
4. Sofia collected 1,245 stickers. She then received 638 more stickers as a gift. How many stickers does Sofia have now?
A. 1,793
B. 1,863
C. 1,873
D. 1,883
5. A bakery baked 2,050 buns. By the end of the day, 1,275 buns were sold. How many buns are left?
A. 675
B. 775
C. 785
D. 875

6. Look at the row of shapes below. Which shape should come next in the pattern?

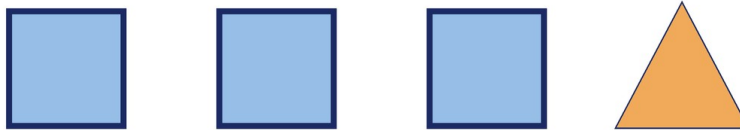


- A. Circle
- B. Square
- C. Triangle
- D. Star

7. Which of these solid shapes has no corners and no edges, and can roll in every direction?

- A. Sphere
- B. Cube
- C. Cone
- D. Cylinder

8. Look at the four shapes below. Which one does NOT belong with the others?



- A. The 1st shape
- B. The 2nd shape
- C. The 3rd shape
- D. The 4th shape

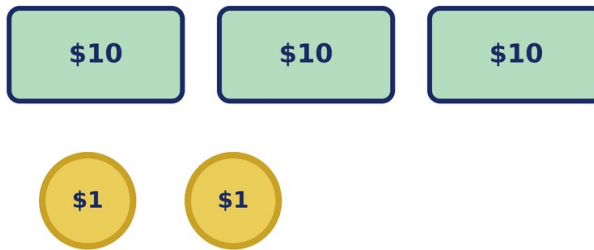
9. Sofia packs eggs into trays. Each tray holds 12 eggs. How many eggs are there in 7 trays?

- A. 84
- B. 86
- C. 90
- D. 94

10. Sofia has 96 marbles. She shares them equally among 8 friends. How many marbles does each friend get?

- A. 11
- B. 12
- C. 14
- D. 16

11. Sofia counts the notes and coins shown below. How much money does she have in total?



- A. \$20
- B. \$26
- C. \$30
- D. \$32

12. Lucas buys a notebook for \$14 and a pencil for \$6. He pays with a \$50 note. How much change does he get?

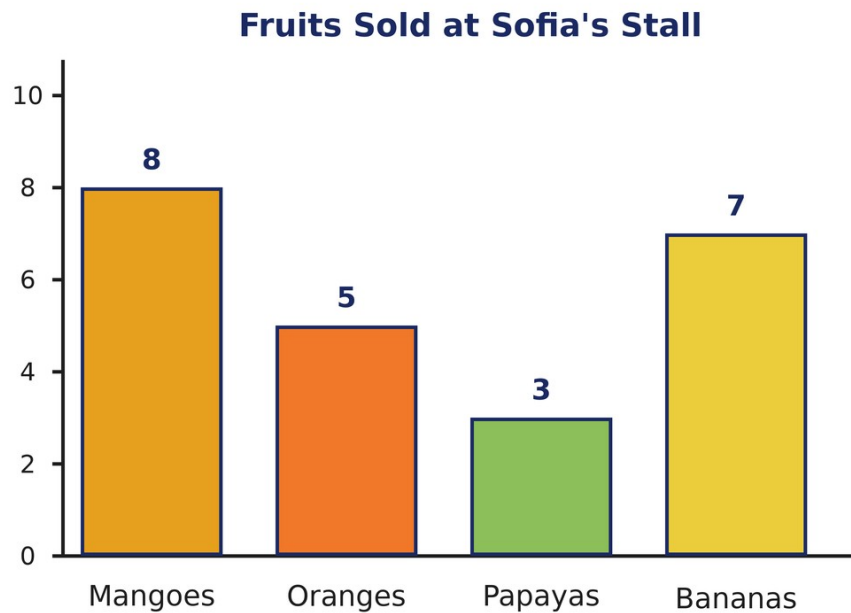
- A. \$20
- B. \$30
- C. \$34
- D. \$36

13. The table below shows the number of story books read by four students in a month. Who read the most books?

Student	Books Read
Ana	14
Ben	9
Mia	17
Leo	11

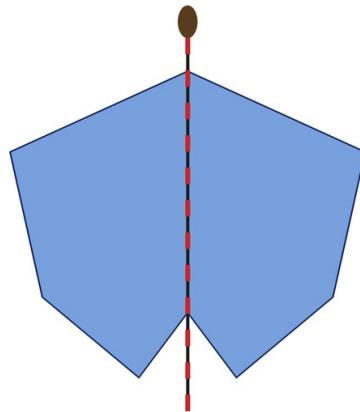
- A. Ana
- B. Ben
- C. Mia
- D. Leo

14. The bar graph below shows fruits sold at Sofia's stall. How many more mangoes were sold than papayas?



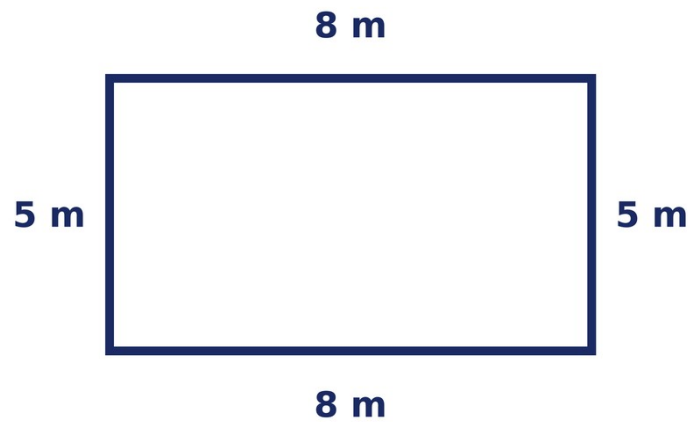
- A. 3
- B. 5
- C. 8
- D. 11

15. Look at the shape below with a dotted line drawn through it. What does the dotted line represent?



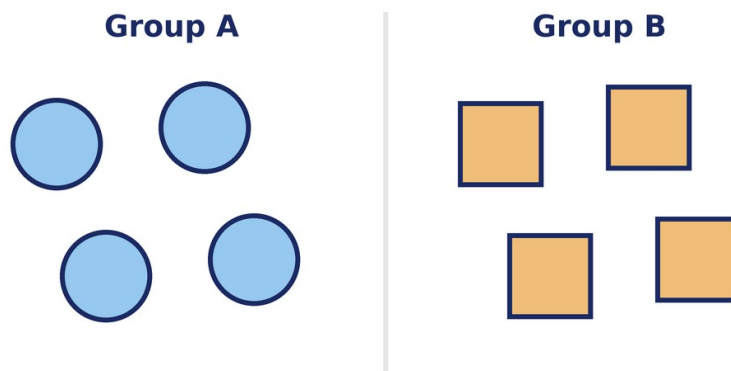
- A. A line of symmetry, dividing the shape into two matching halves
- B. A line that divides the shape into two different-sized halves
- C. A line that is not related to the shape
- D. A line that only touches the shape at one point

16. Sofia is fencing the rectangular garden shown below. What total length of fencing does she need to go all the way around it?



- A. 13 m
- B. 18 m
- C. 26 m
- D. 40 m

17. A new circle is going to be added to the picture below. Which group should it join?



- A. Group A
- B. Group B
- C. Either group
- D. Neither group

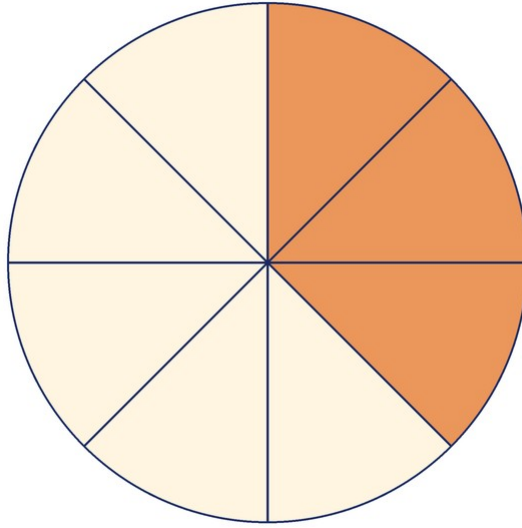
18. Circle is to Sphere as Square is to ____?

- A. Cube
- B. Triangle
- C. Rectangle
- D. Cylinder

19. Which of these numbers does NOT belong with the others: 15, 20, 25, 32?

- A. 15
- B. 20
- C. 25
- D. 32

20. Sofia's family shared a pizza cut into 8 equal slices, shown below. The shaded slices are the ones they ate. What fraction of the pizza did they eat?



- A. $\frac{3}{8}$
- B. $\frac{3}{5}$
- C. $\frac{5}{8}$
- D. $\frac{8}{3}$

21. Sofia had \$50. She bought a toy car for \$18. How much money does she have left?

- A. \$32
- B. \$34
- C. \$36
- D. \$38

22. Sofia buys 4 boxes of chocolates. Each box has 8 chocolates. She then gives 12 chocolates to her classmates. How many chocolates does she have left?

- A. 12
- B. 20
- C. 32
- D. 44

23. A movie starts at 3:00 PM and lasts 1 hour and 30 minutes. What time does it end?

- A. 3:30
- B. 4:00
- C. 4:15
- D. 4:30

24. Lucas's stamp collection has 6 stamps on each page. If he has 5 full pages, how many stamps does he have in total?

- A. 25
- B. 28
- C. 30
- D. 35

25. In a row of children waiting for the bus, Lucas is 5th from the front and 8th from the back. How many children are there in the row in total?

- A. 11
- B. 12
- C. 13
- D. 14

Answer Key

SMETA Mathematics Olympiad · Grade 3-4

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	D	6	B	11	D	16	C	21	A
2	C	7	A	12	B	17	A	22	B
3	D	8	D	13	C	18	A	23	D
4	D	9	A	14	B	19	D	24	C
5	B	10	B	15	A	20	A	25	B

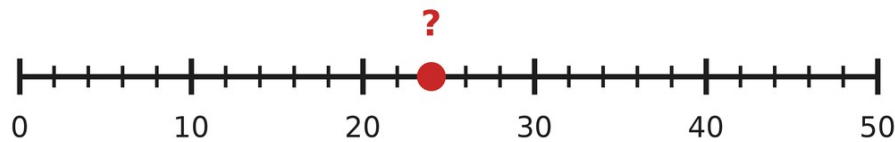
SMETA MATHEMATICS OLYMPIAD**Question Paper — Grade 3-4**

Total Questions: 25 · Time: 60 minutes · Max Marks: 100

Instructions:

Read each question carefully. Each question has four options (A, B, C, D) — choose only one correct answer. Use a pencil or a blue/black pen. No calculators are allowed. All the best!

1. What is the expanded form of 3,942?
A. $300 + 900 + 40 + 2$
B. $3,000 + 90 + 40 + 2$
C. $3,000 + 900 + 4 + 2$
D. $3,000 + 900 + 40 + 2$
2. What number is shown by the dot on the number line below?

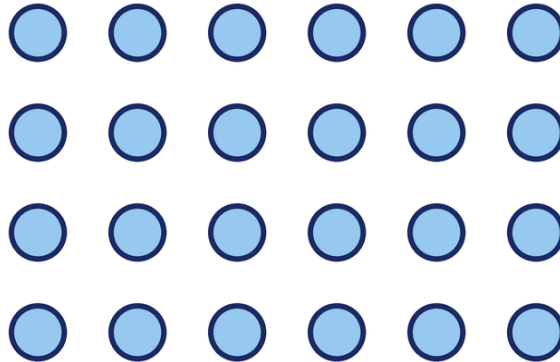


- A. 22
B. 24
C. 26
D. 28
3. Arrange these numbers in ascending order (smallest to largest): 482, 428, 824, 248
A. 248, 428, 482, 824
B. 428, 248, 482, 824
C. 482, 428, 824, 248
D. 824, 482, 428, 248
 4. Sofia's school collected 3,268 books for a donation drive. The school library already had 1,547 books. How many books does the library have now, including the donation?
A. 4,705
B. 4,795
C. 4,805
D. 4,815

5. A cinema hall has 5,400 seats. On Saturday, 3,865 seats were filled. How many seats were empty?

- A. 1,435
- B. 1,525
- C. 1,535
- D. 1,635

6. How many dots are there in total in the array shown below?

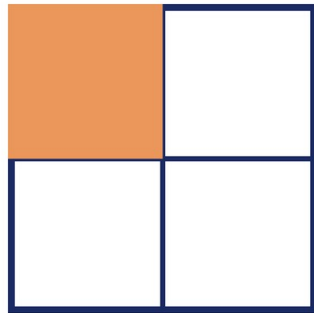


- A. 18
- B. 20
- C. 22
- D. 24

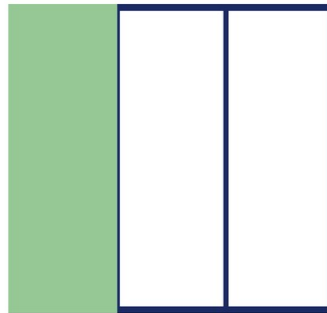
7. Sofia has 45 candies to share equally among 9 friends. How many candies will each friend get?

- A. 4
- B. 5
- C. 6
- D. 7

8. Look at the two shapes below. Which shaded shape shows the greater fraction of the whole?



Shape X



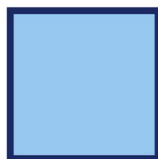
Shape Y

- A. Shape X
- B. Shape Y
- C. Both are equal
- D. Cannot be determined

9. Find the missing number in the pattern: 6, 12, 18, 24, __?

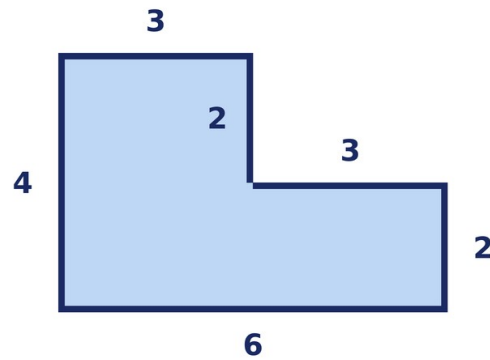
- A. 30
- B. 32
- C. 34
- D. 36

10. Look at the four shapes below. Which one is NOT a quadrilateral?



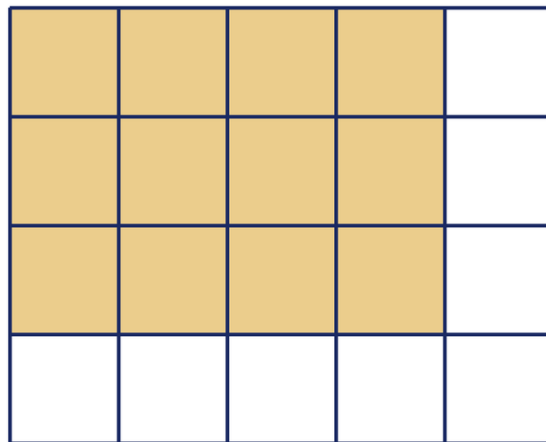
- A. Square
- B. Rectangle
- C. Rhombus
- D. Triangle

11. Lucas wants to put a ribbon all the way around the edge of the L-shaped board shown below. What total length of ribbon does he need?



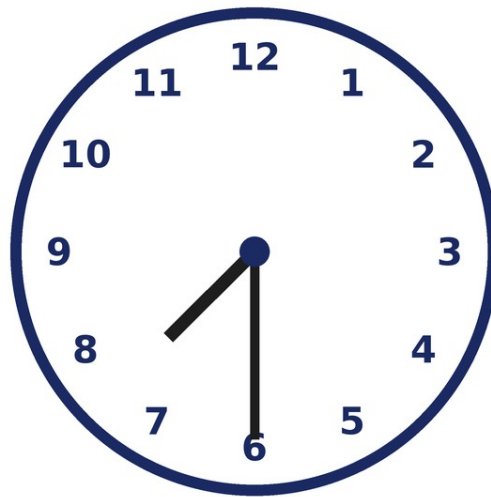
- A. 16 units
- B. 18 units
- C. 20 units
- D. 22 units

12. The grid below is made up of equal squares. What is the area of the shaded region, in square units?



- A. 10
- B. 11
- C. 12
- D. 13

13. Sofia looks at the clock below just as she starts walking to school. If it takes her 25 minutes to walk to school, what time will she arrive?



- A. 7:45
- B. 7:55
- C. 8:05
- D. 8:15

14. Sofia starts her homework at 4:15 PM and finishes at 5:00 PM. How long did she spend on her homework?

- A. 30 minutes
- B. 35 minutes
- C. 40 minutes
- D. 45 minutes

15. Using the price list below, how much would it cost to buy a notebook and a ruler together?

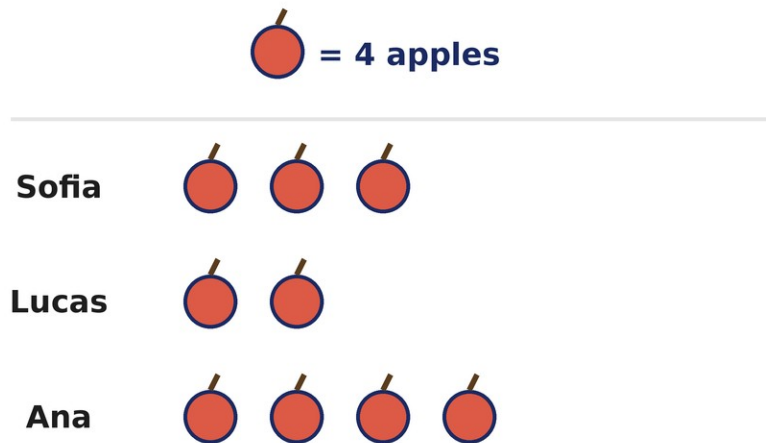
Item	Price
Notebook	\$8
Pencil	\$3
Eraser	\$2
Ruler	\$4

- A. \$10
- B. \$11
- C. \$12
- D. \$13

16. Lucas buys a ruler for \$4 and an eraser for \$2. He pays with a \$20 note. How much change does he receive?

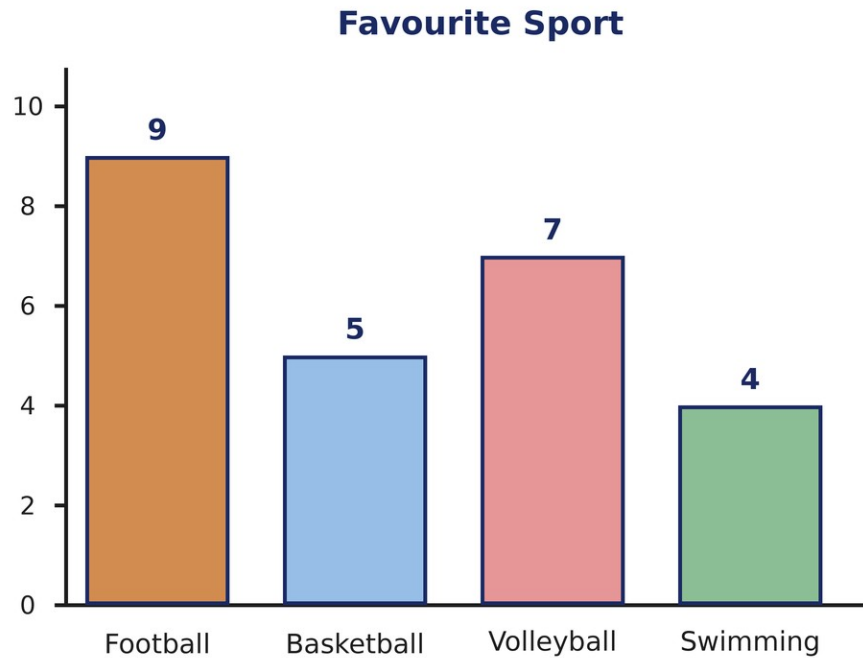
- A. \$14
- B. \$16
- C. \$18
- D. \$20

17. The pictograph below shows apples collected by three friends. According to the pictograph, how many apples does Ana have?



- A. 12
- B. 14
- C. 16
- D. 18

18. The bar graph below shows how classmates voted for their favourite sport. Which sport received the most votes?



- A. Football
- B. Basketball
- C. Volleyball
- D. Swimming

19. The letter R is shown below, followed by four boxes labelled A to D. Which box shows the correct mirror image of the letter R (as if reflected sideways in a mirror)?

R

Original



A



B



C



D

- A. Box A
- B. Box B
- C. Box C
- D. Box D

20. Find the missing letter in the series: B, D, F, H, ___?

- A. I
- B. J
- C. K
- D. L

21. In a secret code, CAT is written as DBU (every letter is moved one step forward in the alphabet). Using the same rule, how would DOG be written?
- A. EPH
 - B. EQH
 - C. EPI
 - D. DPH
22. Sofia has 3 fish bowls. Each bowl has 5 fish. How many fish does she have in total?
- A. 12
 - B. 13
 - C. 15
 - D. 18
23. A ribbon is 40 cm long. Lucas cuts off $\frac{1}{4}$ of it to make a bow. How many centimeters did he cut off?
- A. 8
 - B. 10
 - C. 12
 - D. 16
24. Sofia's garden has 18 sunflowers. She gives 6 sunflowers to her neighbor. How many sunflowers does she have left?
- A. 10
 - B. 11
 - C. 12
 - D. 14
25. Four friends are standing in a line at the bakery. Lucas is right behind Sofia. Sofia is right behind Ana. Ben is at the very front of the line. What is the order of the line from front to back?
- A. Ben, Ana, Sofia, Lucas
 - B. Ana, Ben, Sofia, Lucas
 - C. Ben, Sofia, Ana, Lucas
 - D. Lucas, Sofia, Ana, Ben

Answer Key

SMETA Mathematics Olympiad · Grade 3-4

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	D	6	D	11	C	16	A	21	A
2	B	7	B	12	C	17	C	22	C
3	A	8	B	13	B	18	A	23	B
4	D	9	A	14	D	19	B	24	C
5	C	10	D	15	C	20	B	25	A

SMETA MATHEMATICS OLYMPIAD

Question Paper — Grade 3-4

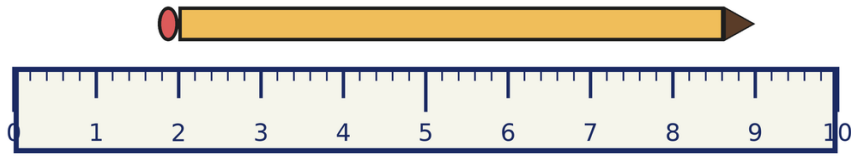
Total Questions: 25 · Time: 60 minutes · Max Marks: 100

Instructions:

Read each question carefully. Each question has four options (A, B, C, D) — choose only one correct answer. Use a pencil or a blue/black pen. No calculators are allowed. All the best!

1. In the number 6,185, what is the value of the digit 8?
A. 8
B. 80
C. 800
D. 8,000
2. Which of these numbers is the smallest?
A. 5,123
B. 5,132
C. 5,231
D. 5,321
3. Sofia baked 2,340 cookies for the school fair. Her class then donated 1,275 more. How many cookies are there now?
A. 3,615
B. 3,625
C. 3,705
D. 3,805
4. A stadium has 4,800 seats. During a game, 3,150 seats were filled. How many seats were empty?
A. 1,450
B. 1,550
C. 1,600
D. 1,650
5. Lucas arranges chairs in rows for a school assembly. Each row has 9 chairs. How many chairs are there in 6 rows?
A. 54
B. 58
C. 63
D. 72

6. What is the length of the pencil shown on the ruler below, in centimeters?

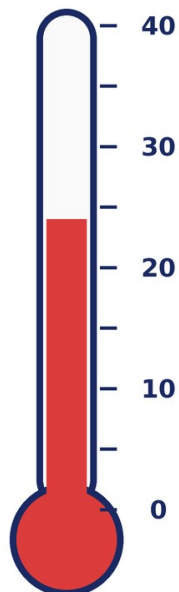


- A. 5
- B. 6
- C. 7
- D. 8

7. Sofia has 72 stickers. She shares them equally among 8 friends. How many stickers does each friend get?

- A. 6
- B. 7
- C. 8
- D. 9

8. What temperature does the thermometer below show, in °C?



- A. 18
- B. 21
- C. 24
- D. 27

9. Find the missing number in the pattern shown below.



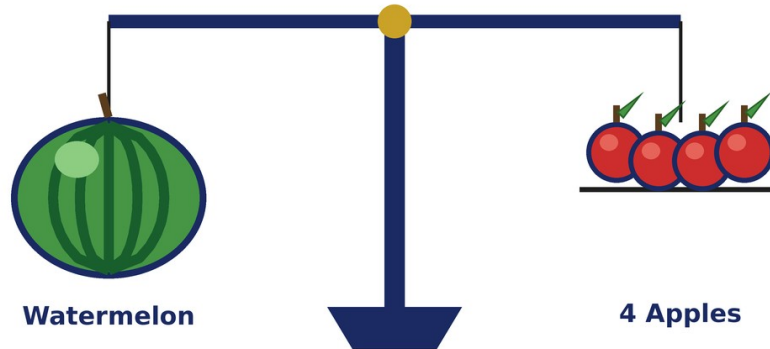
- A. 20
- B. 22
- C. 24
- D. 26

10. According to the calendar shown below, what day of the week is the 15th?

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

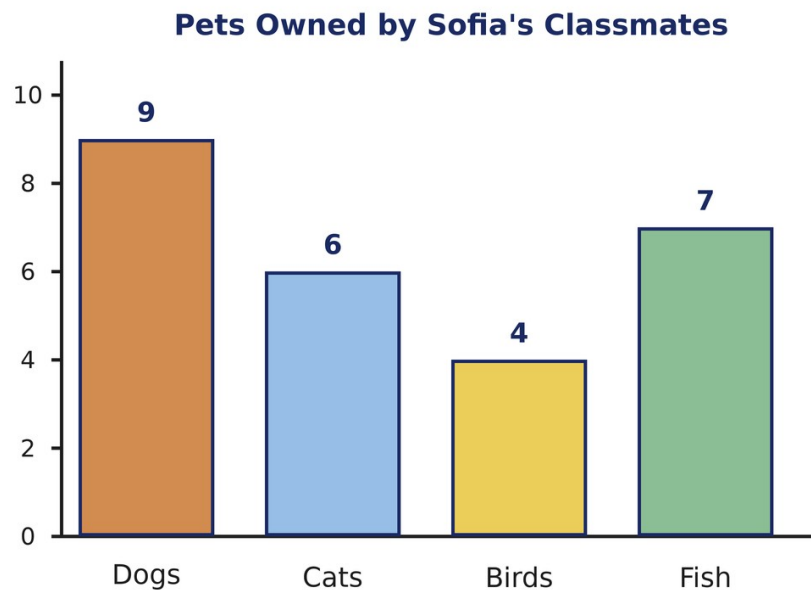
- A. Tuesday
- B. Wednesday
- C. Thursday
- D. Friday

11. The balance scale below shows a watermelon balanced exactly with 4 apples. If one apple weighs 2 kg, how much does the watermelon weigh?



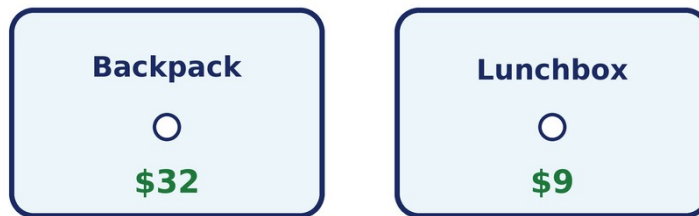
- A. 5 kg
- B. 6 kg
- C. 7 kg
- D. 8 kg

12. The bar graph below shows the pets owned by Sofia's classmates. How many more dogs than birds are there?



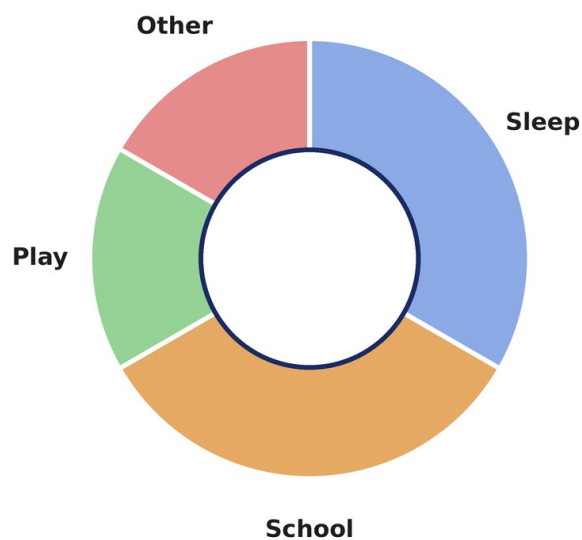
- A. 3
- B. 4
- C. 5
- D. 6

13. Sofia buys a backpack for \$32 and a lunchbox for \$9, shown below. How much does she spend in total?



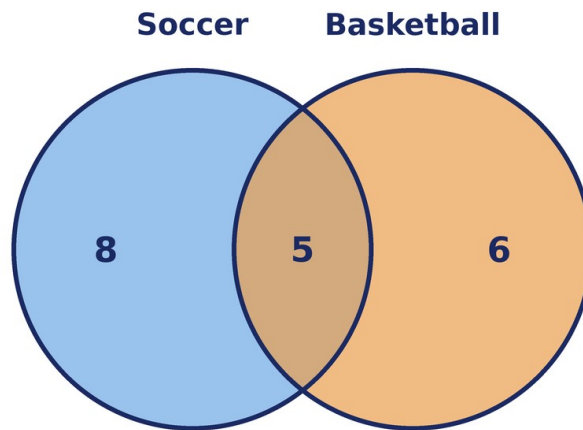
- A. \$35
- B. \$37
- C. \$39
- D. \$41

14. The chart below shows how Lucas spends his day. What fraction of the day does he spend sleeping?



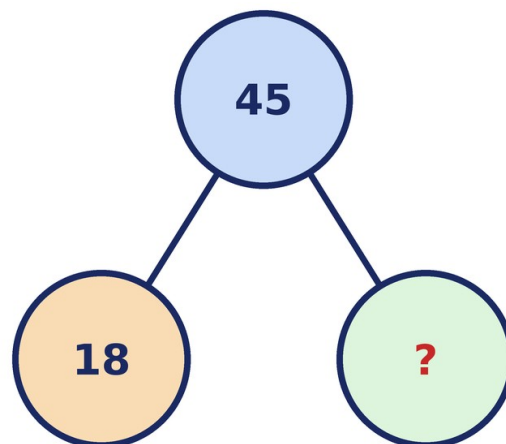
- A. $\frac{1}{4}$
- B. $\frac{1}{3}$
- C. $\frac{1}{2}$
- D. $\frac{2}{3}$

15. The Venn diagram below shows the sports liked by a group of students. How many students like both soccer and basketball?



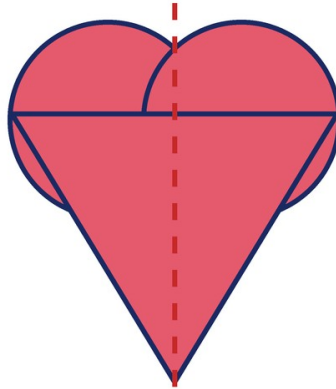
- A. 4
- B. 5
- C. 6
- D. 8

16. The number bond below shows a whole of 45 split into two parts. If one part is 18, what is the other part?



- A. 21
- B. 23
- C. 25
- D. 27

17. Look at the heart shape below with a dotted line drawn through it. Does the dotted line show a correct line of symmetry?



- A. Yes, it divides the heart into two matching halves
 - B. No, the two sides are different sizes
 - C. The line does not touch the shape
 - D. Symmetry cannot be determined
18. Day is to Week as Month is to ____?
- A. Year
 - B. Season
 - C. Hour
 - D. Day
19. Which of these does NOT belong with the others: Triangle, Square, Circle, Rectangle?
- A. Triangle
 - B. Square
 - C. Circle
 - D. Rectangle
20. Lucas has 36 marbles. He gives $\frac{1}{3}$ of them to his brother. How many marbles does he give away?
- A. 9
 - B. 10
 - C. 12
 - D. 15
21. Sofia's garden has 5 rows of tulips with 7 tulips in each row. How many tulips are there in total?
- A. 28
 - B. 30
 - C. 32
 - D. 35

22. Lucas bought 3 packs of pencils. Each pack has 8 pencils. He then lost 5 pencils. How many pencils does he have left?
- A. 16
 - B. 19
 - C. 21
 - D. 24
23. A baker made 48 cupcakes. She put them equally into 6 boxes. How many cupcakes are in each box?
- A. 8
 - B. 9
 - C. 10
 - D. 12
24. Sofia read 23 pages of her book on Monday and 19 pages on Tuesday. How many pages did she read in total?
- A. 38
 - B. 40
 - C. 42
 - D. 44
25. In a race, Ana finished 3rd. Ben finished 4 places behind Ana. In what position did Ben finish?
- A. 5th
 - B. 6th
 - C. 7th
 - D. 8th

Answer Key

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Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	6	C	11	D	16	D	21	D
2	A	7	D	12	C	17	A	22	B
3	A	8	C	13	D	18	A	23	A
4	D	9	B	14	B	19	C	24	C
5	A	10	B	15	B	20	C	25	C

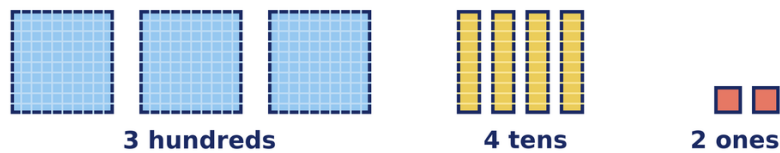
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1. What number is shown by the base-10 blocks below?



- A. 324
B. 342
C. 423
D. 432
2. Which of these numbers is closest to 5,000?
A. 4,870
B. 5,210
C. 5,340
D. 5,480
3. Sofia's school library has 3,450 books. They bought 1,680 new books. How many books are there now?
A. 5,030
B. 5,070
C. 5,110
D. 5,130
4. A farm had 6,200 chickens. They sold 2,750 chickens at the market. How many chickens are left?
A. 3,250
B. 3,350
C. 3,450
D. 3,550

5. Lucas buys 7 packs of juice boxes. Each pack has 6 boxes. How many juice boxes does he have in total?

- A. 42
- B. 44
- C. 46
- D. 48

6. The bar model below is divided into 5 equal parts. What fraction of the bar is shaded?

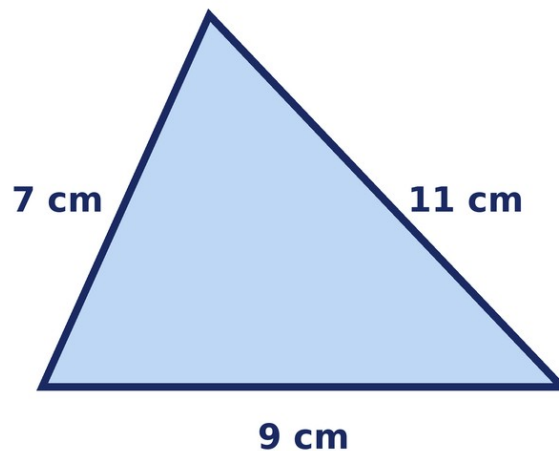


- A. $\frac{2}{5}$
- B. $\frac{3}{5}$
- C. $\frac{3}{4}$
- D. $\frac{4}{5}$

7. Sofia has 84 crayons. She puts them equally into 7 boxes. How many crayons are in each box?

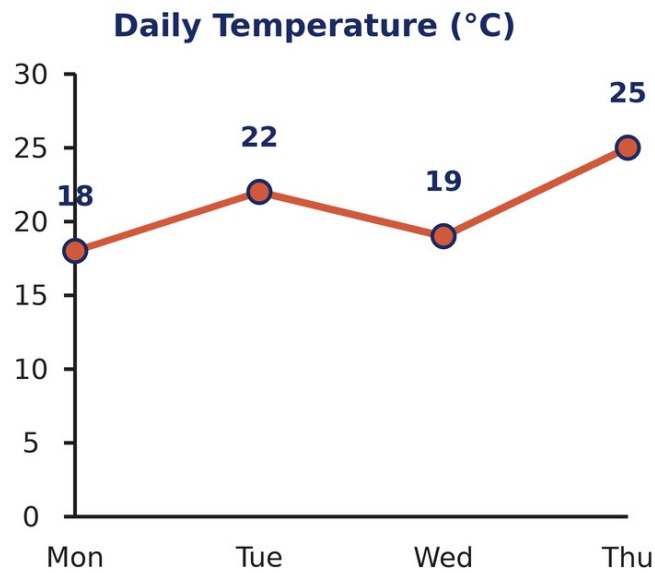
- A. 9
- B. 10
- C. 11
- D. 12

8. What is the perimeter of the triangle shown below?



- A. 25 cm
- B. 26 cm
- C. 27 cm
- D. 29 cm

9. According to the line graph below, on which day was the temperature the highest?



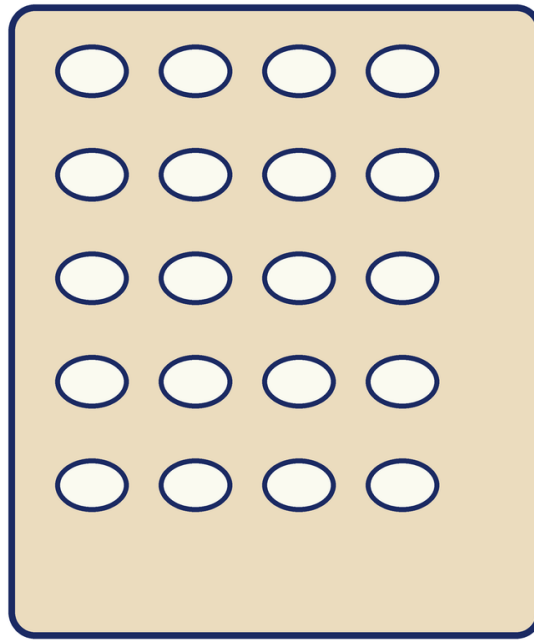
- A. Monday
- B. Tuesday
- C. Wednesday
- D. Thursday

10. Sofia looks at the digital clock below just as she starts baking cookies. If the cookies take 35 minutes to bake, what time will they be ready?

4:20

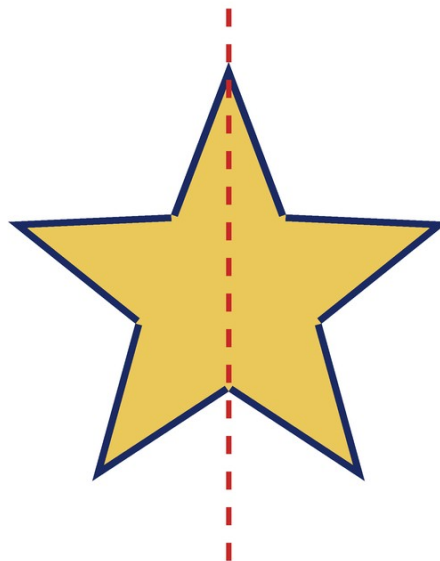
- A. 4:45
- B. 4:55
- C. 5:05
- D. 5:15

11. How many eggs are there in total in the carton shown below?



- A. 16
- B. 18
- C. 20
- D. 22

12. Look at the star shape below with a dotted line drawn through it. Does the dotted line show a correct line of symmetry?



- A. Yes, it divides the star into two matching halves
- B. No, the two sides are different sizes
- C. The line does not touch the shape
- D. Symmetry cannot be determined

13. Using the receipt shown below, what is the total amount spent?

RECEIPT	
Notebook	\$6
Eraser	\$2
Crayons	\$5
Total	?

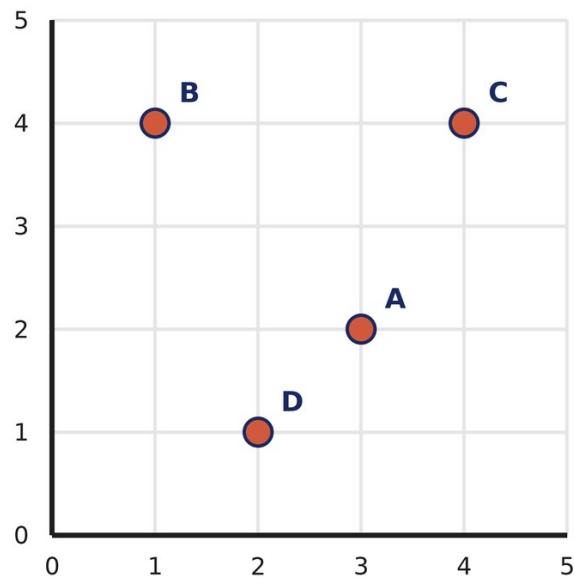
- A. \$13
- B. \$14
- C. \$16
- D. \$18

14. Look at the train below. Which car is shaded a different color?



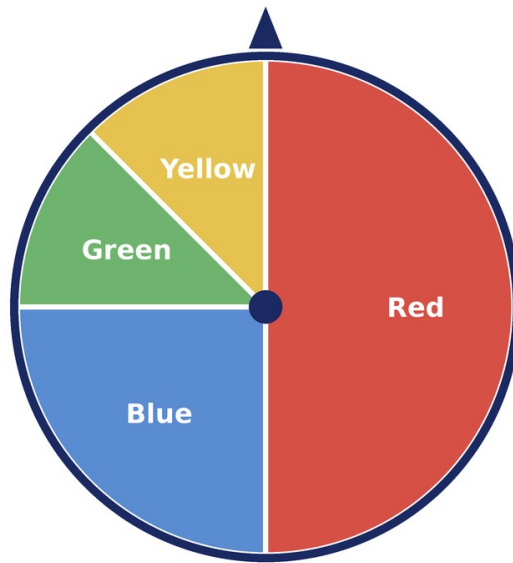
- A. 3rd
- B. 4th
- C. 5th
- D. 6th

15. Point A on the coordinate grid below is at (3, 2). If Sofia moves the point 2 units right and 1 unit up, what will its new coordinates be?



- A. (4, 3)
- B. (5, 2)
- C. (5, 3)
- D. (6, 4)

16. The spinner below is divided into colored sections. What fraction of the spinner is red?



- A. $\frac{1}{8}$
- B. $\frac{1}{4}$
- C. $\frac{1}{2}$
- D. $\frac{3}{4}$

17. Look at the pattern shown below. Find the missing number.



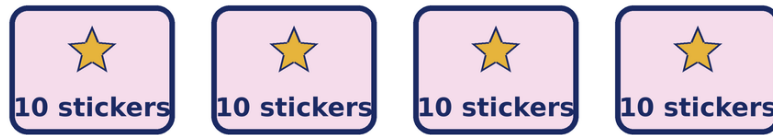
- A. 10
- B. 12
- C. 15
- D. 20

18. Look at the number cards shown below. Which number does NOT belong with the others?



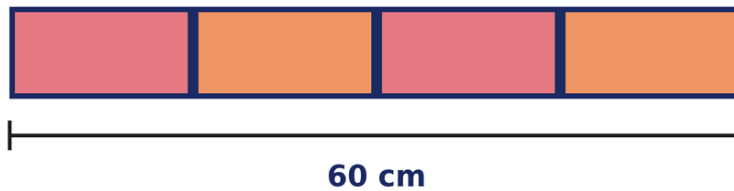
- A. 12
- B. 18
- C. 24
- D. 25

19. Lucas has 40 stickers, shown below in packs of 10. He gives $\frac{1}{5}$ of them to his friend. How many stickers does he give away?



- A. 6
- B. 8
- C. 9
- D. 11

20. Sofia's ribbon is 60 cm long, shown below. She cuts it into 4 equal pieces. How long is each piece?



- A. 10 cm
- B. 12 cm
- C. 13 cm
- D. 15 cm

21. Sofia has 6 boxes of pencils. Each box has 8 pencils. How many pencils does she have in total?

- A. 48
- B. 50
- C. 52
- D. 56

22. Sofia bought 5 packs of balloons with 8 balloons in each pack. She then gave 14 balloons away. How many balloons does she have left?

- A. 26
- B. 28
- C. 32
- D. 36

23. A baker made 60 muffins, shown below. She packed them equally into 5 boxes. How many muffins are in each box?



60 muffins shared equally into 5 boxes

- A. 10
 - B. 12
 - C. 13
 - D. 14
24. Lucas walked 18 minutes to school and 15 minutes back home. How many minutes did he spend walking in total?
- A. 28
 - B. 30
 - C. 31
 - D. 33
25. In a spelling contest, Mia finished 2nd. Leo finished 5 places behind Mia. In what position did Leo finish?
- A. 6th
 - B. 7th
 - C. 8th
 - D. 9th

Answer Key

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Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	6	B	11	C	16	C	21	A
2	A	7	D	12	A	17	C	22	A
3	D	8	C	13	A	18	D	23	B
4	C	9	D	14	B	19	B	24	D
5	A	10	B	15	C	20	D	25	B