

Choose a circle to show how much each sentence is like you

Very Unlike Me 1	Unlike Me 2	Like Me 3	Very Like Me 4
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**01.** I like maths at school.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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**02.** I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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**03.** My teacher thinks I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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**04.** My Mum and Dad think I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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**05.** I enjoy doing maths in my own time (not at school).

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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**06.** I enjoy doing things in maths that I haven't tried before.

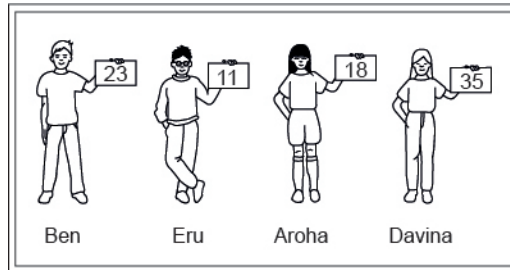
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## Practice Questions

These practice questions are to help you understand how to show your answer for different types of questions.

**P01.** Who is holding a card with an even number on it?

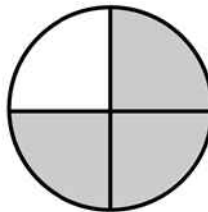


- Ben
- Eru
- Aroha
- Davina

**P02.** Complete this number pattern.

2, 4, \_\_\_\_\_, \_\_\_\_\_, 10

**P03.** What fraction of this circle is shaded?



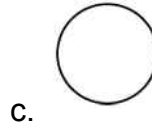
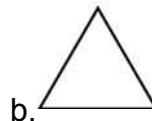
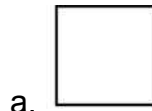
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**P04.** Match the sentence with the correct shape.

1. I have three sides

2. I have 4 sides



**P05.** Which numbers make this number sentence **TRUE**?

$$2 + \star > 5$$

1

2

3

4

5

**P06.** Put the numbers 1, 2, 3, and 4 in the boxes to order these numbers from biggest (1) to smallest (4).

3

7

2

0

**P07.** Select whether the following statements are True or False.

In the number 213, the value of 1 is ten.

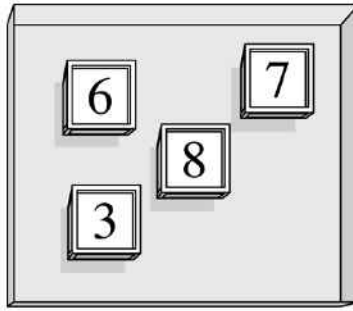
**TRUE**

**FALSE**

In the number 504, the value of 5 is fifty.

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01. What is the **least** number you could make using all the numbers on these blocks?

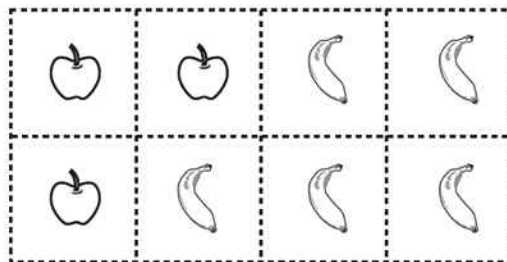


- Three thousand, six hundred and seventy-eight
- Three thousand, eight hundred and seventy-six
- Six thousand, three hundred and seventy-eight
- Six thousand, eight hundred and seventy-three

02. Which fraction represents the largest part of a whole?

- $\frac{1}{6}$
- $\frac{1}{4}$
- $\frac{1}{3}$
- $\frac{1}{2}$

03. What fraction of the group of stickers is apple stickers?



- $\frac{3}{5}$
- $\frac{2}{5}$
- $\frac{3}{8}$
- $\frac{2}{8}$

04. Which of these is equal to  $8000 + 800 + 8$ ?

- 8088
- 8808
- 8880
- 8888

05. A number has nine ones, six tens, and eight hundreds.  
What is the number?

- 869
- 896
- 968
- 986

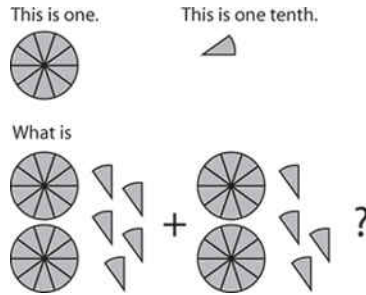
06. Which class earned the **MOST** points from the two events?

POINTS EARNED FROM SCHOOL EVENTS

Class	Mathathon	Readathon
Mr. Lopez	425	411
Ms. Chen	328	456
Mrs. Green	447	342

- Mr Lopez's class
- Ms Chen's class
- Mrs Green's class
- All classes earned the same amount.

07.



- 5.0
- 4.9
- 2.9
- 0.1

08. Juanita wanted to use her calculator to add 1379 and 243. She entered  $1279 + 243$  by mistake.

Which of these could she do to correct the mistake?

- Add 100
- Add 1
- Subtract 1
- Subtract 100

09. Kitty is taking a trip on which she plans to drive 300 kilometres each day. Her trip is 1723 kilometres long.

She has already driven 849 kilometres.





How much further must she drive?

- 574 kilometres
- 874 kilometres
- 1423 kilometres
- 2872 kilometres

10. The picture graph shows the numbers of 4 different kinds of plants Mr Swan bought on Saturday.

How many pepper plants did Mr Swan buy?

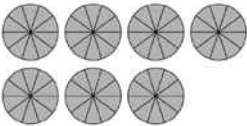
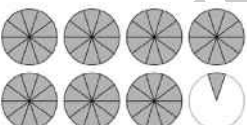

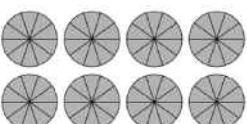
Plants Bought

Kind of Plant	Number Bought
Peppers	
Tomatoes	
Beans	
Carrots	

Key:  = 5 plants.

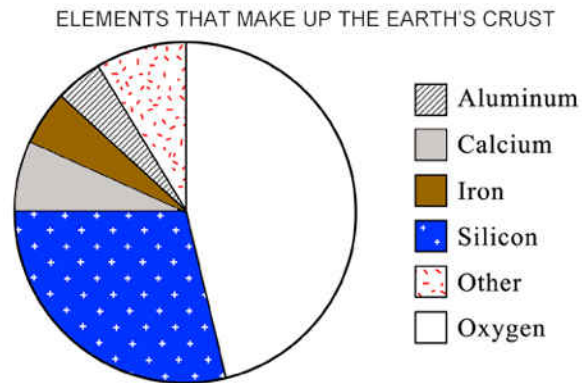
- 15
- 10
- 8
- 3

11. Which represents exactly 1.7?

- 
- 
- 
- 



12. According to the graph below, which element forms the second greatest portion of the earth's crust?



- Oxygen
- Silicon
- Aluminium
- Iron
- Calcium

13. Which number sentence is **TRUE**?

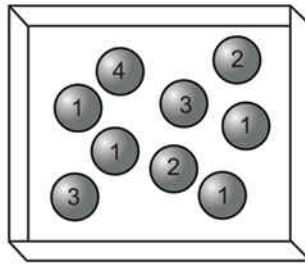
- $549 > 550$
- $549 > 552$
- $549 > 539$

14. The figure below is shaded on the top side and white on the under side.  
 If the figure were flipped over, its white side could look like which of the following figures?



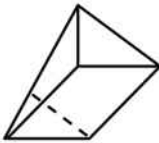
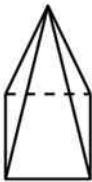
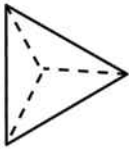
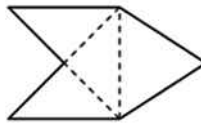
- 
- 
- 
- 

15. These balls were put into a box and mixed up.  
 If Monique picks one ball without looking, what kind of ball is she **LEAST** likely to pick?



- 
- 
- 
-

16. This net represents the surface area of a solid figure. Which drawing represents the figure?



17. Which of the following is **TRUE**?

$653 > 660$

$653 < 642$

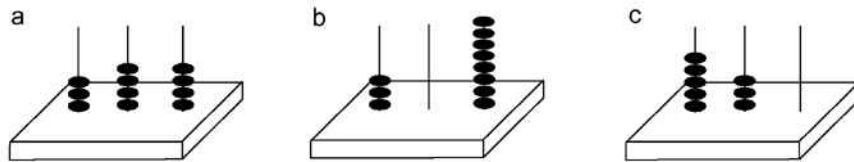
$662 < 670$

$670 > 682$

18. If  $\square$  represents the number of newspapers that Lee delivers each day, which of the following represents the total number of newspapers that Lee delivers in 5 days?

- $5 + \square$
- $5 \times \square$
- $\square + 5$
- $(\square + \square) \times 5$

Use the three abacuses shown to answer the question 19..



19. Which abacus shows the smallest number?

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End of Section

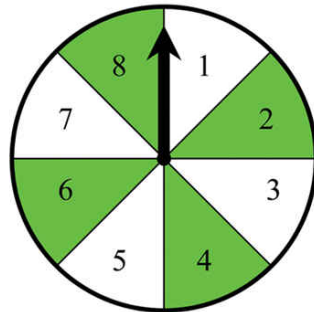
20.  $18\ 416 - 5\ 037 =$

- 13 339
- 13 379
- 13 429
- 13 479

21. A whole number is multiplied by 5.  
Which of these could be the result?

- 652
- 562
- 526
- 265

22. Karina and Michael decided to spin the arrow on the spinner below to determine who would win their game.  
Which of the following describes a rule that is fair to both students?



- Spin a 1, 2 or 3 - Karina wins.  
Spin a 4, 5, 6, 7, or 8 - Michael wins.
- Spin a 1, 3, 5, 7, or 8 - Karina wins.  
Spin a 2, 4, or 6 - Michael wins.
- Spin a 1 or 2 - Karina wins.  
Spin any other number Michael wins.
- Spin an even number - Karina wins.  
Spin an odd number - Michael wins.

23. Wendy wants to take a survey to determine which flavour of ice cream is the **MOST** popular at her school.  
Which of the following methods is the **BEST** way for her to choose a random sample of the students at her school?

- Selecting ten students from each home room
- Selecting members of the girls' softball team
- Selecting members of the boys' basketball team
- Selecting students who like her favourite flavour of ice cream

24. Janet took a survey of her class. She asked each student how he or she gets to school. Her results are shown below.  
According to her results, which statement below is **NOT** true?

**How Students Get to School**

Ride a Bike	
Take the Bus	
Go by Car	
Walk	

- More students go by car than take the bus.
- More students ride a bike and walk than go by car.
- More students take the bus than either walk or go by car.
- More students ride a bike to school than walk.

25. One number in the sequence is wrong.

22	26	30	36	38	42
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What change should be made to correct this sequence?

- 26 should be replaced by 24
- 26 should be replaced by 28
- 36 should be replaced by 34
- 42 should be replaced by 40

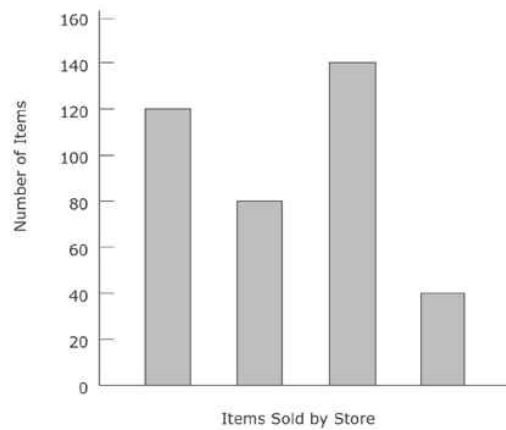
26. The graph shows the number of pens, pencils, rulers, and erasers sold by a store in one week.

The names of the items are missing from the graph.

Pens were the items most often sold, and fewer erasers than any other item were sold.

More pencils than rulers were sold.

How many pencils were sold?



- 40
- 80
- 120
- 140

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27. The Sports Store was selling running shoes at a special sale price. The normal price is \$60.80. They were reduced by  $\frac{1}{4}$  of the normal price. How much were they reduced by?



- \$12.20
- \$15.20
- \$45.60
- \$48.60

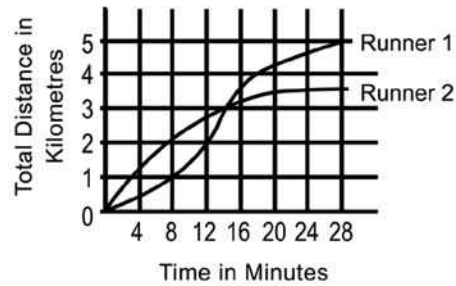
28. The total length of a vehicle is 205.83 units. What is the length of the vehicle rounded to the nearest whole number?

- 200 units
- 205 units
- 206 units
- 210 units



29. The total distance covered by two runners during the first 28 minutes of a race are shown in the graph below.

How long after the start of the race did one runner pass the other?



- 3 minutes
- 8 minutes
- 12 minutes
- 14 minutes
- 28 minutes

30. The pictogram below shows the number of T-shirts sold each day of School Spirit Week.

About how many **MORE** T-shirts were sold on Tuesday than on Friday?

**T-Shirts Sold**

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

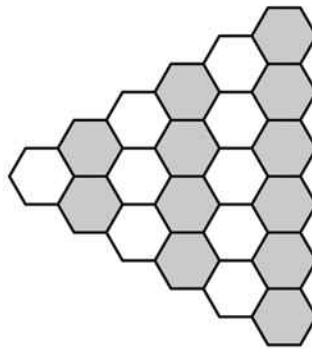
= 10 T-shirts

- 4
- 5
- 40
- 45

31. Carla has 12 boxes that each weigh the same amount.  
What would be a quick way for her to find the total weight of the 12 boxes?

- Add 12 to the weight of one of the boxes
- Subtract 12 from the weight of one of the boxes
- Divide the weight of one of the boxes by 12
- Multiply the weight of one of the boxes by 12

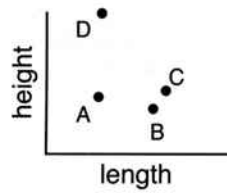
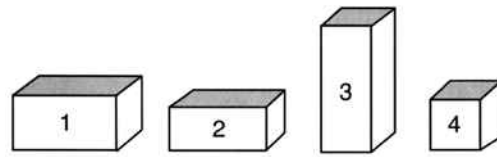
32. Andi is using white and gray tiles to make the pattern shown below.  
If she continues the pattern in the same way, how many tiles will be in the next column of **gray** tiles?



- 7
- 8
- 10
- 12

33. The graph below shows the relationship between the height and the length of some boxes.

Which letter represents box 1?



- A
- B
- C
- D

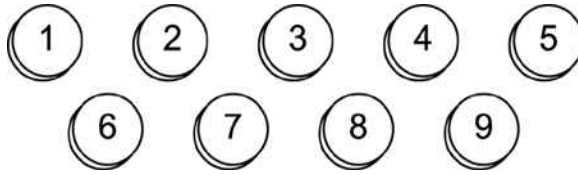
34. If the sum of 39 and 66 is divided by 3, the result is

- 35
- 61
- 79
- 315

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35. The nine chips shown below are placed in a sack and then mixed up. Madeline draws one chip from this sack.

What is the probability that Madeline draws a chip with an even number?



- $\frac{1}{9}$
- $\frac{2}{9}$
- $\frac{4}{9}$
- $\frac{1}{2}$
- $\frac{4}{5}$

36. Kirstin wants to buy a flute that costs \$240. She has saved \$20 each week for 3 weeks.

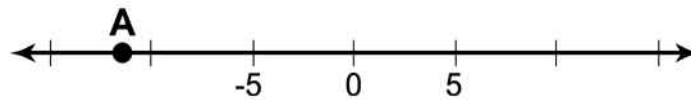
How many **more** weeks does Kirstin need to save if she continues to save \$20 each week?

- 9 weeks
- 10 weeks
- 11 weeks
- 12 weeks

37. What kind of triangle always has 3 acute angles and 3 sides of the same length?

- Isosceles
- Right
- Equilateral
- Scalene

38. Which is **closest** to the location of point A on the number line?



- 11
- 7
- 7
- 11

39. Each person attending a meeting will receive a notepad and a ruler. The table below shows the different colours of the notepads and the rulers. Which of the following tree diagrams shows all the different combinations of 1 colour of notepad and 1 colour of ruler?

Meeting Supplies

Notepads	Ruler
Yellow	Orange
Blue	Pink
	Green

- |                     |
|---------------------|
| Yellow — Orange     |
| Blue — Pink — Green |
- |        |        |
|--------|--------|
| Yellow | Orange |
|        | Pink   |
|        | Green  |
|        | Blue   |
- |      |        |       |
|------|--------|-------|
| Blue | Orange | Pink  |
|      | Yellow | Green |
- |        |        |
|--------|--------|
| Yellow | Orange |
|        | Pink   |
|        | Green  |
| Blue   | Orange |
|        | Pink   |
|        | Green  |

40. Judy used the same rule on each number in column A to change it to a different number, which is shown in column B.  
Which of the following was the rule Judy used?

Judy's Number Table

Column A		Column B
12	→	36
13	→	39
14	→	42
15	→	45

- Add 24
- Add 30
- Divide by 3
- Multiply by 3

41. Which statement below is **TRUE**?

Student Ski Lift Passes Sold at Jiminy Peak

Day of the Week	Number of Passes Sold
Thursday	58
Friday	163
Saturday	200
Sunday	175
Monday	22

- More student passes were sold on Friday than on Sunday.
- Altogether, more than 500 student passes were sold on Saturday and Sunday.
- More than 800 passes were sold during this five-day period.
- More student passes were sold on Thursday and Friday than on Sunday and Monday.

42. Each time Rosa takes her dog for a check-up, Dr Azim records the dog's weight. Which of the following is the **BEST** way for the doctor to record the dog's weight at each check-up in order to see any changes in the weight?

- Pictogram
- Tally chart
- Line graph
- Circle graph

43. Becky went shopping for clothes. She bought pants, sweaters, 3 T-shirts, and socks. How many sweaters and T-shirts did she buy? What information is needed to solve the problem above?

- How much money did she spend?
- How many pairs of socks did she buy?
- How many pairs of pants did she buy?
- How many sweaters did she buy?

44. Marta used a rule to combine the numbers in column A and column B to get the number in column C. Which of the following was **MOST** likely the rule Marta used?

A	B	→	C
14	2	→	7
20	4	→	5
36	4	→	9
24	3	→	8
19	3	→	

- Add the number in column A to the number next to it in column B.
- Subtract the number in column B from the number next to it in column A.
- Multiply the number in column A times the number next to it in column B.
- Divide the number in column A by the number next to it in column B.

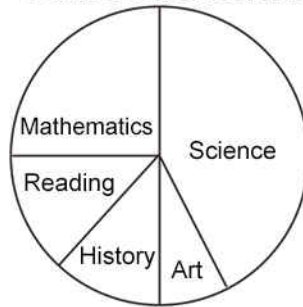
**45.** The temperature in a freezer was  $-15^{\circ}\text{C}$ .  
What would the temperature be if it rose by  $6^{\circ}\text{C}$ ?

- $-21^{\circ}\text{C}$
- $-9^{\circ}\text{C}$
- $9^{\circ}\text{C}$
- $21^{\circ}\text{C}$

**46.** The pie chart below shows the portion of time Patrick spent on homework in each subject last week.

If Patrick spent 2 hours on Mathematics, about how many hours did he spend on homework altogether?

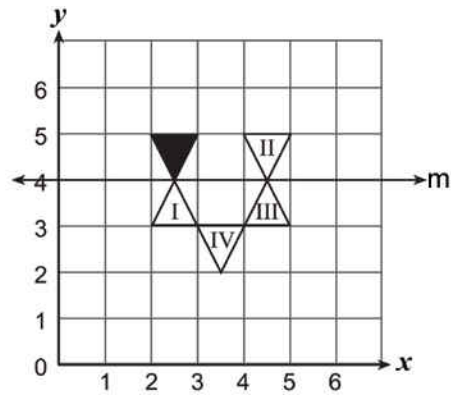
**Patrick's Homework**



- 4
- 8
- 12
- 16



47. On the graph, which triangle is a reflection of the shaded triangle over the line  $m$ ?



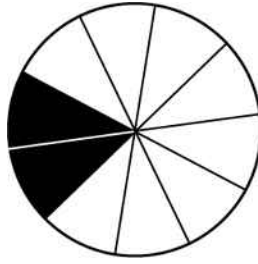
- I
- II
- III
- IV

48. What value of  $x$  satisfies the following?  
 $4x + 12 = 100$

- 13
- 22
- 28
- 37

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49. The spinner below has 2 out of 10 parts shaded.  
What is the probability of the spinner landing on the unshaded part?



- $\frac{2}{10}$
- $\frac{8}{10}$
- $\frac{10}{8}$
- $\frac{10}{2}$

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