

Understanding integers

Use the number line at the right to answer the following questions.

- What is the midpoint of the number line? _____
- What are numbers with a minus sign in front of them called? _____
- What are numbers without a minus sign in front of them called? _____

What is the difference between the two given points?

- points F and H _____
- points K and L _____
- points G and K _____
- points F and D _____
- points F and C _____
- points D and B _____
- points E and I _____
- points B and J _____
- points A and L _____

13 What happens when two numbers with plus signs in front of them are combined?

- They are multiplied.
- They are added.
- They are subtracted.
- They are divided.

14 What happens when a number with a plus sign in front of it is combined with a number with a minus sign in front of it?

- They are multiplied.
- They are added.
- They are subtracted.
- They are divided.

15 What happens when two numbers with minus signs in front of them are combined?

- They are multiplied.
- They are added.
- They are subtracted.
- They are divided.



Score 2 points for each correct answer!



Describing probabilities

Circle the correct answer.

1 What is another way of saying that an event has a $\frac{1}{2}$ chance of occurring?

- 1.2 chance
- 0.5 chance
- 0.12 chance
- 2.1 chance

2 What is another way of saying that an event has a three out of four chance of happening?

- 50% chance.
- 34% chance.
- 43% chance.
- 75% chance.

3 What is another way of saying that an event has a four out of five chance of occurring?

- 0.8 chance
- 4.5 chance
- 0.4 chance
- 8.0 chance

4 Which of these is the same as a 25% probability of an event happening?

- a one in twenty-five probability
- a two in five probability
- a one in four probability
- a twenty-five to one probability

5 Which of these is the same as a 0.4 probability of an event happening?

- a one out of four probability
- two in five probability
- a zero in four probability
- a two out of four probability

6 Which expression of probability is different to the others?

- $\frac{1}{10}$ probability
- a ten in one chance
- 10% probability
- 0.1 probability

7 Which expression of a chance event happening is different to the others?

- $\frac{1}{5}$ chance
- a one in five chance
- 5% probability
- 0.2 probability

8 Which expression of a random event happening is different to the others?

- $\frac{5}{20}$ probability
- a one in four chance
- 25% chance
- 0.4 probability

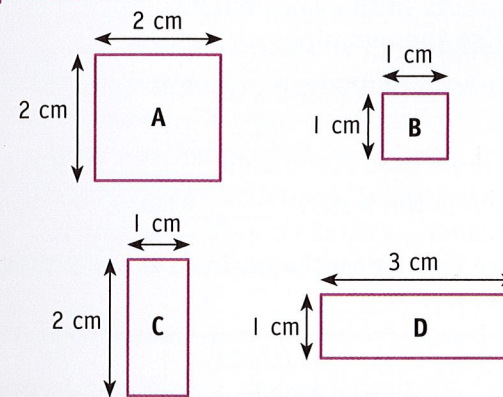
Score 2 points for each correct answer!



Measurement & Geometry

Comparing lengths and areas

Use these shapes to answer the following questions.



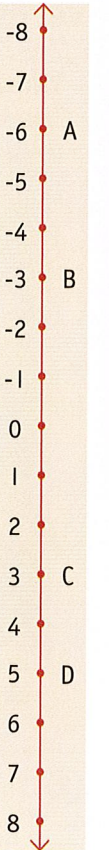
- Which shape has the smallest area? _____
- Which shape has the largest area? _____
- Do any shapes have the same area?
a yes b no
- Which shape has the shortest perimeter? _____
- Which two shapes have the longest perimeter? _____
- Which shape has an area of 2 cm²? _____
- Which shape has an area of 1 cm²? _____
- What is the area of shape A? _____
- What is the area of shape B? _____
- Which shape has a perimeter of 4 cm? _____
- Which shapes have a perimeter of 8 cm? _____
- What is the perimeter of shape A? _____
- What is the perimeter of shape C? _____
- What is the sum of the perimeters of all the shapes? _____

Score 2 points for each correct answer!

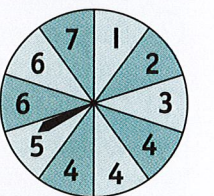


Use this number line to answer the following questions.

- Start at point B. Plus 4, minus 2. What number are you on? _____
- Begin at point C. Add 4, subtract 6, add 2. What number are you on? _____
- Commence at point D. Subtract 6, plus 5, minus 9. What number are you on? _____
- Enter at point A. Add 10, subtract 3, take away 5, plus 6. What number are you on? _____
- Start at point C. Go negative 7, positive 11, negative 3. What number are you on? _____
- Begin at point A. Go positive 4, repeat, repeat, negative 8. How many steps must you move to reach zero? _____
Are the steps positive or negative? _____
- Enter at point D. Go positive 1, negative 9, positive 7. Repeat all the steps. How many steps must you move to reach zero? _____
Are the steps positive or negative? _____



Use this spinner to answer the following questions.



- What is the probability of getting a 6 on this spinner, as a percentage? _____
- What is the probability of getting a 5, as a decimal? _____
- What is the probability of getting a 4, as a common fraction? _____
- What is the probability of getting a 4 or a 6, as a percentage? _____
- What is the probability of getting a 1, 2 or 3, as a decimal? _____