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71. Understanding Mathematical Symbols (=, ≠, <, ≤, >, ≥)

Practice Questions:

1. Fill in the blank with the correct symbol: =, <, or >
$8 \_\_\_ 12$

2. Fill in the blank with the correct symbol: =, <, or >
$23 \_\_\_ 23$

3. Fill in the blank with the correct symbol: =, <, or >
$5 + 2 \_\_\_ 9 - 1$

4. Fill in the blank with the correct symbol: =, <, or >
$-3 \_\_\_ -5$

5. True or False: $16 \geq 15$

6. Write an inequality to show that x is greater than or equal to 10.

7. Arrange the following numbers in ascending order using symbols to show size: 4, 0, –2, 8

8. Rewrite this statement using words: $17 \neq 9$

9. Use > to compare the following numbers: –7 and 4?

10. Write an inequality to show that x is less than or equal to 50.

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71. Understanding Mathematical Symbols (=, ≠, <, ≤, >, ≥)

Scenario Questions:

1. Sam has 12 apples, and Jake has 9 apples. Write an inequality to show who has which quantity of apples is larger.

Sam's apples _____ Jake's apples

2. A bus can hold up to 40 passengers. Use ≤, <, > or ≥ to make the statement represent this.

The number of people on the bus _____ 40 people

3. A store sells two brands of cereal: one weighs 500g, and the other weighs 750g. Complete the inequality to compare the weights.

500g _____ 750g

4. The temperature in City A is –2°C, and in City B it's 3°C. Using <, > or = complete the mathematical statement to compare the temperatures.

–2°C _____ 3°C

5. A football team needs at least 9 players to play a match. Use ≤, <, > or ≥ to make the statement below true.

Players on football team _____ 9 players

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Scenario Questions:

6. A movie ticket costs £8. Sarah has £6. Write an inequality to show if Sarah has more or less money than the cost of a movie ticket.

7. A car must not exceed 70 mph on a motorway. Write an inequality to show the cars speed in relation to 70 mph.

8. Anna is 5 feet 5 inches tall. Bob is 6 feet tall. Write a mathematical statement to compare their heights.

9. A park sign says, “Dogs weighing 20 kg and over must be on a lead.” Write an inequality to indicate the relationship between dogs off leads and 20kg.

10. A bakery sells cupcakes for £2 each. John has £10. Write an inequality to show the maximum number of cupcakes he can buy.

ANSWERS

Topic 71. Using Mathematical Symbols

Practice Questions:

1. $8 < 12$
2. $23 = 23$
3. $5 + 2 < 9 - 1$
4. $-3 > -5$
5. True
6. $x \geq 10$
7. $-2 < 0 < 4 < 8$
8. 17 is not equal to 9
9. $4 > -7$
10. $x \leq 50$

Scenario Questions:

1. Sam's apples > Jake's apples
2. People on bus ≤ 40
3. 500 g > 750 g
4. -2°C < 3°C
5. Players on team ≥ 9 players
6. £6 < Movie Ticket
7. Speed ≤ 70 mph
8. Anna < Bob
9. Dogs off leads < 20 kg
10. Cupcakes < 5