Mahavir Senior Model School
WINYER BREAK HOMEWORK
SESSION 2025-26
Mathematics
CLASS V

Assertion Reasoning questions:

For question numbers 1 to 5, choose the correct option:

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

1. Assertion (A): 25% of 200 is 50.

   Reason (R): To find 25% of a number, multiply the number by 0.25.

2. Assertion (A): 50% of 400 is equal to half of 400.

   Reason (R): 50% means half of a quantity.

3. Assertion (A): 100% of 50 is 50.

   Reason (R): 100% represents the whole quantity.

4. Assertion (A): 20% of 150 is 30.

   Reason (R): 20% is the same as 20/100 or 1/5.

5. Assertion (A): 10% of 50 is greater than 20% of 20.

   Reason (R): 10% of 50 is 5, and 20% of 20 is 4.

6. Assertion (A): 2.054, 12.05 and 21.6 are like decimals.

   Reason (R): Decimals having the same number of digits on the right hand side of the decimal point are called like decimals.

7. Assertion (A): Three thousands, four tens and 5 hundredths, is 3040.05.

   Reason (R): Hundredths means one tenth of tens.

8. Assertion (A): $56078.76 \div 10000 = 0.5607876$

   Reason (R): To divide a decimal number by 10, 100 or 1000, we move the decimal point in the number to the left by as many places as there are zeroes after 1.

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CASE BASED QUESTIONS

Q1. Rahul is running a sports academy He has many play ground and club coaches under him. If he has 24000 balls in his academy and all are good then we say that 100% of balls are good.

Out of these, 20% balls are made of rubber, 5% balls are made from leather, while remaining balls are made of plastic.

a) Find the number of balls of each type.

b) If cost of 1 ball of rubber is rupees ₹15 Find the total cost of rubbed balls.

c) If Rahul donate 35% of total balls to a children welfare NGO. How many balls left with Rahul for his academy?

2. Find the unknown value in the given equation: 3889 + 12.952 – ? = 3854.002

3. A city's population increases by 8% every year. If the current population is 150000, what will be the population next year?

4. There are 250 children in a primary school. 40% of them are girls. How many girls are there in the school?

5. There is 90 kg of sugar in a sack.18 kg of sugar is kept by shopkeeper for his family. What percentage of sugar will the shopkeeper sell

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1. Find the percent of the following:

   (a) 25% of 200g   (b) 12% of 100g

   (c) 80% of 100L   (d) 90% of 900L

   (e) 35% of 700kg   (f) 24% of 120kg

2. Convert the following into percentage.

   (a) 7.8   (b) 0.19   (c) 1.5   (d) 7.5

   (e) 1.05   (f) 0.56   (g) 0.7   (h) 0.23

3. Convert the following percentage into fraction and decimal forms.

   (a) 56%   (b) 250%   (c) 15%

   (d) 45%   (e) 40.5%

4. Solve:

   (a) 15% of a litre

   (b) 45% of ₹ 200

   (c) 25% of a metre

   (d) 45% of 5 kilogram

5. Convert the following into decimals.

   (a) 15%   (b) 75%   (c) 175%

6. Convert the following percent into fractions into simplest form:

   (a) 70%   (b) 250%   (c) 23%

   (d) 19%   (e) 78%   (f) 91%

7. Find 20% of the following:

   (a) 30 eggs   (b) 10 metres of cloth

   (c) 3 dozen bananas   (d) 20 kg rice

   (e) 200 marks   (f) 40 matches

8. Rahul's monthly salary is ₹50,000. He gets a 12% hike. What is his new monthly salary?

9. A board 3.75 cm thick is glued to a board of thickness 4.375 cm. What is the combined thickness of the boards?

10. Solve:

   a) 12.45 + 87.821
   b) 23.654– 8.45
   c) 3.5 × 463
   d) 0.25 × 167