

DELHI PUBLIC SCHOOL, JAMMU

SESSION 2024-25

Assignment-5 (December)

Class: VI

Subject: Mathematics

Topic: Ratio and Proportion & Understanding elementary shapes

Read the instructions carefully and answer the following questions. Assertion and Reason Based Questions This type of reasoning questions consists of two statements; an assertion (statement of fact) and a reason (explanation for the assertion). You have to determine whether each statement is correct. If both the statements are correct, you have to determine whether the reason supports the assertion. There will be four answer choices for the possible outcomes and you have to select the correct one.

Q1. Assertion (A): A reflex angle is always greater than an obtuse angle.

Reason (R): An obtuse angle never exceeds 180 degree.

- 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.

Q2. Assertion (A) – The ratio 5:9 is in its simplest form.

Reason (R) – Each of the terms of the ratio is a single digit number.

- 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.

Q3. Assertion (A): When the hand of a clock moves from one position to another, it turns through an angle.

Reason (R): The angle for one revolution is a complete angle.

- 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.

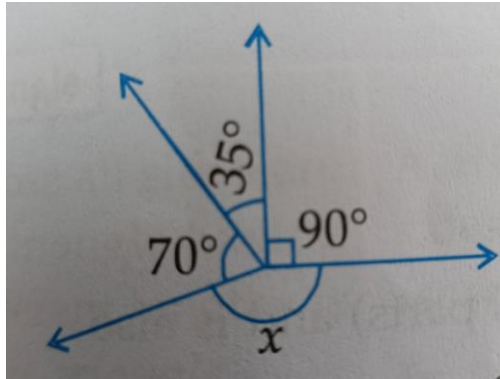
Q4. Do as Directed :

(a) Find the number of right angles turn through by the hour hand of a clock when it goes from 12 to 9.

(b) How many degrees are there in $\frac{2}{3}$ of a right angle?

Q5. Find the value of x in $21: 27:: 126: x$

Q6. Find the value of x



Q7. The cost of two dozen bananas is Rs 90. How many bananas can be purchased for Rs 120?

Q8. Case study based Question:-

Dheeraj works in a company and his weekly earnings are Rs 1425. He saves Rs 225 per week.

Q1. Find the ratio of his savings to his income.

- (a) 3:19 (b) 3:15 (c) 3:18 (d) none of these

Q2. Find the ratio of savings to his expenses.

- (a) 3:18 (b) 3:16 (c) 3:15 (d) none of these

Q3. Find the ratio of his income to his expenses.

- (a) 19:15 (b) 19:18 (c) 19:16 (d) none of these