

Formative Assessment-6

PRACTICE EXAM.

1. Tick (✓) the correct option.

(a) $\frac{-25}{100}$ is equivalent to:

(i) $-\frac{1}{4}$

(ii) $\frac{1}{4}$

(iii) $\frac{3}{4}$

(iv) $-\frac{3}{4}$

(b) If $AB \parallel EF$ and $CD \parallel EF$ then:

(i) $AB \perp BF$

(ii) $CD \perp EF$

(iii) $AB \parallel CD$

(iv) $AB \perp CD$

(c) The magnitude of the region enclosed by a plane figure is called its

(i) perimeter

(ii) area

(iii) both (i) and (ii)

(iv) none of these

(d) If the sum of two consecutive odd numbers is 32, the smaller number is:

(i) 15

(ii) 17

(iii) 19

(iv) 21

(e) The value of x , when $\frac{x}{2} - \frac{1}{4} = \frac{x}{3} + \frac{1}{2}$ is:

(i) $\frac{7}{2}$

(ii) $\frac{9}{2}$

(iii) $\frac{-9}{2}$

(iv) none of these

2. Tick (✓) for 'True' and (✗) for 'False'.

(a) Every fraction is not a rational number.

(b) If one angle of a triangle is a right angle, then the triangle is called a right-angled triangle.

(c) The standard unit of area is square unit.

(d) The area of trapezium is given by $\frac{1}{2}(b_1 + b_2) \times h$.

(e) $7a^2 + 3p$ is a trinomial.

3. Fill in the blanks.

(a) A number of the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$, is called a _____ number.

(b) In ΔPQR , the included angle between sides PR and QP is _____.

(c) 1 hectare = _____ ares = _____ m^2 .

(d) Perimeter of a rectangle is equal to _____.

(e) $5x + 8 = -11x$ is an equation in _____ variable.

4. By what number should we multiply $\frac{-15}{28}$, so that the product is $\frac{-5}{7}$?

5. Construct a right triangle ABC in which $\angle B = 90^\circ$, $AB = 4$ cm and $BC = 7.5$ cm. Measure AC .

6. Find the area of a circle whose diameter is 7.7 cm.

7. A father is thrice as old as his son. The sum of their ages is 88 years. Find their ages.

Formative Assessment-3

PRACTICE EXAM.

1. Tick (✓) the correct option.

(a) $\frac{-25}{100}$ is equivalent to:

(i) $-\frac{1}{4}$

(ii) $\frac{1}{4}$

(iii) $\frac{3}{4}$

(iv) $-\frac{3}{4}$

(b) If $AB \parallel EF$ and $CD \parallel EF$ then:

(i) $AB \perp BF$

(ii) $CD \perp EF$

(iii) $AB \parallel CD$

(iv) $AB \perp CD$

(c) The magnitude of the region enclosed by a plane figure is called its

(i) perimeter

(ii) area

(iii) both (i) and (ii)

(iv) none of these

(d) If the sum of two consecutive odd numbers is 32, the smaller number is:

(i) 15

(ii) 17

(iii) 19

(iv) 21

(e) The value of x , when $\frac{x}{2} - \frac{1}{4} = \frac{x}{3} + \frac{1}{2}$ is:

(i) $\frac{7}{2}$

(ii) $\frac{9}{2}$

(iii) $\frac{-9}{2}$

(iv) none of these

2. Tick (✓) for 'True' and (✗) for 'False'.

(a) Every fraction is not a rational number.

(b) If one angle of a triangle is a right angle, then the triangle is called a right-angled triangle.

(c) The standard unit of area is square unit.

(d) The area of trapezium is given by $\frac{1}{2}(b_1 + b_2) \times h$.

(e) $7a^2 + 3p$ is a trinomial.

3. Fill in the blanks.

(a) A number of the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$, is called a _____ number.

(b) In ΔPQR , the included angle between sides PR and QP is _____.

(c) 1 hectare = _____ ares = _____ m^2 .

(d) Perimeter of a rectangle is equal to _____.

(e) $5x + 8 = -11x$ is an equation in _____ variable.

4. By what number should we multiply $\frac{-15}{28}$, so that the product is $\frac{-5}{7}$?

5. Construct a right triangle ABC in which $\angle B = 90^\circ$, $AB = 4$ cm and $BC = 7.5$ cm. Measure AC .

6. Find the area of a circle whose diameter is 7.7 cm.

7. A father is thrice as old as his son. The sum of their ages is 88 years. Find their ages.