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Direction: What should come in place of the question mark '?' in the following question?

1. $364 + 32 \div 1.6 + 16 = ?^2$
A. 20
B. 22
C. 23
D. 15
E. 16

2. 75% of 80 + 15% of (120 ÷ 3) = ?
A. 65
B. 66
C. 63
D. 61
E. 68

3. $1\frac{1}{5}\%$ of ? × 9 + 3 = 30
A. 250
B. 220
C. 180
D. 280
E. 300

4. 120 litres mixture of milk and water contains 20 litres of water. If 36 litres of the mixture are withdrawn, then find the percentage of milk in the remaining mixture.
A. 67.67%
B. 83.33%
C. 52 .25%
D. 48.33%
E. None of these

5. Sum of the present ages of A and B is 60 years. Four years ago, the ratio of ages of A and B was 6 : 7. If C is 4 years elder than B, then what will be the sum of the ages of A, B and C after 5 years?
A. 84 years
B. 92 years
C. 96 years
D. 111 years
E. None of these

6. A train crosses a pole in 36 seconds and a platform in 52 seconds. If the speed of the train is 54 km/hr, then what is the length of the platform?
A. 240 m
B. 360 m
C. 320 m
D. 280 m
E. None of these

7. A and B started a business in partnership by investing the capital of Rs. 35000 and Rs. 40000 respectively. After six months, C also joined them with some capital. If at the end of the year, the profit share of C is Rs. 8000 out of the total profit of Rs. 23000, then find the amount invested by C.
A. Rs. 40000
B. Rs. 64000
C. Rs. 80000
D. Rs. 96000
E. None of these

8.Radius of a circle is 28 cm, and its circumference is 32 cm more than the perimeter of a square. What is the area of the square?
A. 81 cm^2
B. 324 cm^2
C. 1296 cm^2
D. 5184 cm^2
E. None of these

Direction: (9-14) In the following number series, only one number is wrong. Find out the wrong number.

9.
1.9, 3, 8.1, 22.2, 52.3, 108.4, 198.5
A. 3
B. 8.1
C. 52 .3
D. 108.4
E. 198.5

10.1, 3, 13, 79, 633, 6332, 75973
A. 13
B. 79
C. 6332
D. 633
E. 3

11.4 , 8, 2, 3, 6, 15, 45
A. 8
B. 3
C. 6
D. 45
E. 15

12.96, 125, 112, 141, 126, 157, 144
A. 125
B. 112
C. 141
D. 126
E. 157

ANSWERS

1. Ans. A.

$364 + 32 ÷ 1.6 + 16 = ?^2$

$\Rightarrow 364 + \dfrac{32}{1.6} + 16 = ?^2$

$\Rightarrow 364 + 20 + 16 = ?^2$

$\Rightarrow 400 = ?^2$

$\Rightarrow ? = 20$

2. Ans. B.

$? = 75\%$ of $80 + 15\%$ of $(120 ÷ 3)$

$= \dfrac{75}{100} \times 80 + \dfrac{15}{100} \times 40$

$= 60 + 6$

$= 66$

3. Ans. A.

$1\dfrac{1}{5}\%$ of $? \times 9 + 3 = 30$

$\Rightarrow \dfrac{6}{500} \times ? \times 9 + 3 = 30$

$\Rightarrow \dfrac{6}{500} \times ? \times 9 = 27$

$\Rightarrow ? = \dfrac{250}{27} \times 27 = 250$

4. Ans. B.

Quantity of milk in mixture = 120 – 20 = 100 litres

Ratio of milk and water in mixture = 100 : 20 = 5 : 1

Quantity of milk taken out when 36 litres of miture is withdrawn = $\dfrac{5}{6} \times$ 36 = 30 litres

Quantity of milk left = 100 – 30 = 70 litres

Quantity of remaining mixture = 120 – 36 = 84 litres

Required percentage = $\dfrac{70}{84} \times$ 100 = 83.33%

5. Ans. D.

Let the ages of A and B 4 years ago be 6x and 7x respectively.

According to question,

6x + 4 + 7x + 4 = 60

$\Rightarrow$ 13x = 52

$\Rightarrow$ x = 4

Present age of A = 6 × 4 + 4 = 28 years

Present age of B = 7 × 4 + 4 = 32 years

Present age of C = 32 + 4 = 36 years

Required sum = 28 + 32 + 36 + 5 × 3 = 111 years

6. Ans. A.

Let the Length of train train be L meter and length of platform be P meter.

Speed of train = 54 km/h = $54 \times \frac{5}{18}$ = 15 m/s

Here, $\frac{L}{15}$ = 36

⇒ L = 540 m

Also, $\frac{540 + P}{15}$ = 52

⇒ 540 + P = 780

⇒ P = 240

7. Ans. C.

Let the invetment of C be Rs. X.

Ratio of profits of A, B and C = 35000 × 12 : 40000 × 12 : X × 6

= 70000 : 80000 : X

According to question,

$\frac{X}{70000+80000+X} = \frac{8}{23}$

⇒ 23X = 8X + 150000 × 8

⇒ 15X = 150000 × 8

⇒ X = 80000

8. Ans. C.

Let the side of square be x cm.

Then, $2 \times \frac{22}{7} \times 28 = 32 + 4x$

⇒ 176 = 32 + 4x

⇒ 4x = 144

⇒ x = 36

Area of square = $x^2 = 36^2$ = 1296 cm^2

9. Ans. D.

First Diff : 1.1, 5.1, 14.1, 30.1, **55.1**, **91.1**

Second Diff: 4, 9, 16, 25, 36

9, 3, 8.1, 22.2, 52.3, **107.4**, 198.5

10. Ans. C.

×2+1, ×4+1, ×6+1, ×8+1, ×10+1, ×12+1,

1, 3, 13, 79, 633, **6331**, 75973

11. Ans. A.

× 0.5 , × 1, × 1.5, × 2, × 2.5, × 3

4 , **2**, 2, 3, 6, 15, 45

12. Ans. D.

+ 29, - 13, + 29, - 13, + 29, - 13

96, 125, 112, 141, **128**, 157, 144