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6. In a school the ratio of boys to girls is 4 : 3 and ratio of girls to teachers is 8 : 1. The ratio of students to teachers is

A. 58 : 5

B. 56 : 3

C. 57 : 6

D. 56 : 9

7. The difference of two numbers is 20% of the larger number, if the smaller number is 20, the larger number is

A. 15

B. 20

C. 25

D. 28

8. A cistern is normally filled in 8 hours but takes another 2 hours longer to fill because of a leak in its bottom. If the cistern is full, the leak will empty it in

A. 35 hours

B. 38 hours

C. 40 hours

D. 42 hours

9. A train 180 m long moving at the speed of 20 m/s, over - takes a man moving at the speed of 10m/sec in the same direction. The train passes the man in

A. 20 seconds

B. 18 seconds

C. 22 seconds

D. 25 seconds

10. If base and height of parallelogram are in ratio of 2 : 3 and area of parallelogram is 600 m². Find height of parallelogram.

A. 28 m

B. 30 m

C. 32 m

D. 36 m

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Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	D	B	B	A	B	C	C	B	B

Explanations:

1. Total discount = Cash back amount + 10% discount as first time user + gift
Total amount = 60 + 600 + 799 = 1459,

$$\text{Actual cost price} = 6000 - 1459 = 4541,$$

$$\text{Selling price} = 4600, \text{ Gain} = 59$$

$$\text{Gain \%} = \frac{59}{4541} \times 100 = 1.29\%$$

Hence, option (B) is correct.

2. S.I. = $\frac{P \times R \times T}{100}$

$$\text{As, Amount} = P + \frac{PRT}{100}$$

So, According to given condition :-

$$\Rightarrow \text{S.I.} = \frac{7}{9} (\text{Amount})$$

$$\frac{PRT}{100} = \frac{7}{9} \left(P + \frac{PRT}{100} \right)$$

$$\frac{PRT}{100} = \frac{7P}{9} \left(1 + \frac{RT}{100} \right)$$

$$\frac{R}{100} = \frac{1}{9} + \frac{RT}{900}$$

$$\frac{R}{100} - \frac{7R}{900} = \frac{1}{9} \Rightarrow \frac{900R - 700R}{90000} = \frac{1}{9}$$



$$\Rightarrow 200 R = 10,000$$

$$R = 50\%$$

Hence, option (D) is correct.

3. A can type 400 pages in 80 hours. So B can type 200 pages in 80 hours.

$$\text{B can type 1 page in } \frac{80}{200} = \frac{2}{5} \text{ hours}$$

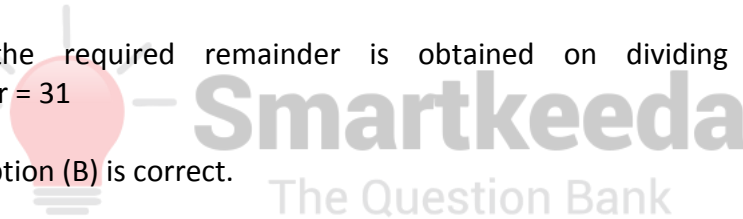
$$\text{B can type 40 pages in } \frac{2}{5} \times 40 = 16 \text{ hours}$$

Hence, option (B) is correct.

4. Here, 1881 is exactly divisible by 33.

Hence, the required remainder is obtained on dividing 757 by 33
remainder = 31

Hence, option (B) is correct.



5. When age of C = 5 years 2 months

Age of B will be = 5 years 2 months + 3 years 4 months

= 8 years 6 months

& the age of A = 4 years 7 months + 8 years 6 months = 13 years 1 month

$$\text{Average} = \frac{26 \text{ years } 9 \text{ months}}{3} = \frac{26 \frac{9}{12}}{3} = 8 \text{ years } 11 \text{ months}$$

Hence, option A is correct.

6. B : G = 4 : 3

$$G : T = 8 : 1$$

So,

$$B : G : T = 4 : 3$$

$$3 : 1$$

$$= 32 : 24 : 3$$

So, the required ratio is $= (32 + 24) : 3 = 56 : 3$

Hence, option B is correct.

7. Let the larger number be x

as per question $= x - 20 = 20\%$ of x

$$x - 20 = \frac{x}{5}$$

$$x - \frac{x}{5} = 20$$

$$\frac{5x - x}{5} = 20$$

$$= 5x - x = 100 \Rightarrow 4x = 100$$

$$x = 25$$

So, the larger number is 25.

Hence, option C is correct.

8. In normal condition

8 hours \rightarrow fill 1 cistern

so, in 1 hours \rightarrow $1/8$ cistern filled

due to leakage,

10 hour \rightarrow fill 1 cistern.

1 hours \rightarrow $1/10$ part of cistern filled.

Now, the part emptied in 1 hour



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The Question Bank

$$\Rightarrow \frac{1}{8} - \frac{1}{10} = \frac{5-4}{40} = \frac{1}{40}$$

So, the leak will empty the cistern in 40 hours.

Hence, option C is correct.

9. Relative speed of man and train = $20 - 10 = 10$ m/s

$$\text{Reqd. time} = \frac{180}{10} = 18 \text{ seconds}$$

Hence, option B is correct.

10. Let base of parallelogram be $2x$.

$$\therefore \text{Height of triangle} = 3x$$

Where, x is any constant

Area of parallelogram = base \times height

$$\therefore 600 = (2x) \times (3x)$$

$$\therefore 600 = 6x^2$$

$$\therefore x^2 = 100$$

$$\therefore x = 10\text{m}$$

Now, Height of parallelogram = $3x = 3 \times 10 = 30\text{m}$.

Hence, option (B) is correct.

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