PERCENTAGE CSAT_ANSWER EXPLANATIONS

Answer 1: (D)

Let B = 100

A = 128

C = $\frac{75}{100}\times(100+128)=\frac{3}{4}\times228$ = 171

Required percentage = $\frac{171-128}{128}\times100=\frac{43}{128}\times100$

= 33.59%

Answer 2: (D)

Let D = 100

Then, C = 130

Now, B = 60% × C = 60% × 130 = 78

And, A = 125% × B = 125% × 78 = 97.5

Required percentage = 100 – 97.5 = 2.5 i.e. 2.5%

Answer 3: (B)

Let initial price = ₹ 100

New price = 100 × $\frac{75}{100}$ = ₹ 75

Required % $=\frac{100-75}{75}\times100$

$=33\frac{1}{3}\%$

Answer 4: (D)

Total number of hours in a week = 24 × 7 hrs

Hours spend by Monu = 6 × 7 hrs

Required percentage = $\frac{6\times7}{24\times7}\times100=25\%$

Answer 5: (B)

Let the income of Raghav be ₹ 100.

Expenditure = 80

Saving = ₹ 20

New, income = 112

New, saving = $20\times\frac{90}{100}$ = 18

New, expenditure = 112 - 18 = 94

Increment in his expenditure = 94 - 80 = 14

Percentage increment in expenditure = $100\times\frac{14}{80}$

= 17.5%

Answer 6: (D)

A : B

150% : 100%

3 : 2

Required % = $\frac{3-2}{3}\times100$ = 33.3%

Answer 7: (B)

Required percentage = $\frac{R}{100+R}\times100\%$

$\frac{60}{160}\times100=\frac{3}{8}\times100=37.5\%$

Answer 8: (C)

According to the question,

22% ≡ Rs. 1540

1% ≡ $\frac{1540}{22}$ = Rs. 70

14% ≡ 70 × 14 = Rs. 980

Answer 9: (B)

Let the total quantity of sugar be x kg.

According to question,

(100 – 5)% of x = 5

$\Rightarrow x\times\frac{95}{100}=5$

$\Rightarrow x=\frac{500}{95}=5\frac{5}{19}$ kg

Answer 10: (C)

Initial number of apples = 600

Number of remaining apples = 600 – 200 = 400

Required percentage = $\frac{400}{600}\times100$ = 66.66%

Answer 11: (B)

Let the third number be 100.

∴ First number = 80

Second number = 60

Required percent = $\frac{80-60}{80}\times 100 = \frac{20}{80}\times 100 =$ 25%

Answer 12: (A)

100 gm quicklime contains oxygen = 28.6 gm

∴ 1 gm quicklime contains oxygen = $\frac{28.6}{100}$

Hence, 750 gm quicklime contains oxygen

= $\frac{28.6}{100}\times 750$ = 214.5 gm

Answer 13: (A)

Gold : Copper = 3 : 2

∴ Percentage of gold = $\frac{3}{5}\times 100$ = 60 %

Answer 14: (A)

ATQ,

30% + 20 = 52% - 12%

10% = 20

1% = 2

∴ 100% = 200

Answer 15: (D)

According to the question,

30% + 12 = 40% - 28

⇒ 40% - 30% = 12 + 28

⇒ 10% = 40

⇒ 1% = 4

⇒ 100% = 400

Hence, pass percentage = 30% + $\frac{12}{400}\times 100$

= 30% + 3% = 33%

Answer 16: (D)

Let weight of dry fruit = x kg

Pulp % in fresh fruit = Pulp % in dry fruit

⇒ $\frac{32}{100}\times 500 = \frac{80}{100}\times x$

⇒ $x = \frac{32}{80}\times 500 = 200$ Kg

Answer 17: (D)

According to the question,

15% ≡ Rs. 75

1% ≡ Rs. 5

100% ≡ Rs. 5 × 100 = Rs. 500

Hence, income = Rs. 500

Answer 18: (A)

Total runs scored = 150

Total runs scored from boundaries and sixes

= 9 × 4 + 14 × 6 = 36 + 84 = 120

Total runs scored by running between the wickets = 150 − 120 = 30

Required percent = $\frac{30}{150}\times 100$ = 20%

Answer 19: (A)

Percentage of children = (100 – 54 – 32) % = 14%

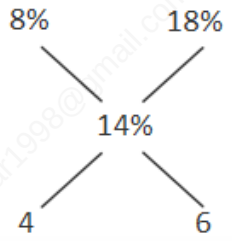
According to the question,

14% ≡ 196

1% ≡ $\frac{196}{14}$

54% ≡ $\frac{196}{14}\times 54 = 756$ men

Answer 20: (D)



Ratio = 4 : 6 = 2 : 3

The quantity sold at 8% profit = $\frac{2}{5}\times 1000 = 400$ kg