

Model (1)

Question 1 : Choose the correct answer :

- 1 A car travels 180km in 3 hours the unit rate is
 (a) 30k/h (b) **60km / h** (c) 90km/h (d) 120km/h
- 2 Simplify the ratio 12: 18 is
 (a) **2: 3** (b) 3: 2 (c) 6: 9 (d) 4: 5
- 3 35% of 80 = ...
 (a) 10 (b) 15 (c) **28** (d) 25
- 4 $\frac{3}{5} \times 10 = \dots$
 (a) 5 (b) **6** (c) 7 (d) 8
- 5 Convert 4.5 kg to grams =.....
 (a) 45 (b) 450 (c) **4500** (d) 45000
- 6 Reciprocal of 5=.....
 (a) **$\frac{1}{5}$** (b) 5 (c) -5 (d) 0
- 7 $6 \div 0.3 = \dots$
 (a) 2 (b) **20** (c) 18 (d) 15
- 8 Equivalent ratio of 3: 4
 (a) 6: 10 (b) **9: 12** (c) 12: 15 (d) 5: 8
- 9 40 is 20% of
 (a) 80 (b) 100 (c) **200** (d) 400

Question 2 : Answer the following questions :

1 $\frac{7}{8} \div \frac{1}{4}$

$$\frac{7}{8} \times \frac{4}{1} = \frac{7}{2} = 3\frac{1}{2}$$

2 Convert 3500m to km ?

$$\frac{3500}{1000} = 3.5km$$

- 3 A book costs 120 pounds . increase 10% find new price ?

$$10\% \text{ of } 120 = 12$$

$$120 + 12 = 132$$

- 4 Simplify 24: 36 ?

$$6 \div 4 : 6$$

$$2 \div 2 : 3$$

- 5 150km in 5 hours , find unit rate ?

$$150\text{km} : 5\text{h}$$

$$30\text{km} : 1\text{h} \quad \div 5 = 30\text{km/h}$$

- 6 Find 30% of 250?

$$250 \rightarrow 10\% = 25$$

$$30\% = 25 \times 3 = 75$$

- 7 Ratio of boys to girls is 3: 4 and total student is 28, find the number of boys ?

boys = girls: total

$$\times 4 \left(\begin{array}{ccc} 3: & 4 & : 7 \\ ? & & 28 \end{array} \right) \times 4$$

boys = 12

Model (2)

Question 1 : Choose the correct answer :

- 1 $\frac{3}{4} \times \frac{2}{5} = \dots$ (simplest)

(a) $\frac{6}{20}$

(b) $\frac{3}{10}$

(c) $\frac{5}{8}$

(d) $\frac{6}{9}$

- 2 Ratio of 8 boys to 4 girls in simplest form :

(a) 8: 4

(b) 4: 2

(c) $\frac{2}{1}$

(d) 1: 2

- 3 Unit rate of 120 km in 3 hours.

(a) 40km/h

(b) 30km/h

(c) 60km/h

(d) 90km/h

- 4 $0.6 \times 0.4 = \dots$
 (a) 2.4 (b) 24 (c) **0.24** (d) 4.2
- 5 $\frac{3}{5}$ of 20 = ...?
 (a) 6 (b) **12** (c) 15 (d) 10
- 6 25% as decimal is
 (a) **0.25** (b) 2.5 (c) 25 (d) 0.025
- 7 $\frac{5}{6} \div \frac{1}{3} = \dots$
 (a) $\frac{5}{18}$ (b) $\frac{15}{6}$ (c) **$\frac{5}{2}$** (d) $\frac{1}{5}$
- 8 A bar is divided into 5 equal parts, 3 parts are shaded, what fraction is not shaded?
 (a) $\frac{3}{5}$ (b) **$\frac{2}{5}$** (c) $\frac{5}{3}$ (d) $\frac{1}{5}$
- 9 15 is what percent of 60 ?
 (a) 5% (b) 10% (c) 15% (d) **25%**

Question 2 : Answer the following questions :

- 1 a) 1.25×0.4 b) $\frac{4}{5} \div 2 =$
 a) $\frac{1.25}{0.500} \times 0.4$ b) $\frac{4}{5} \times \frac{1}{2} = \frac{2}{5}$
- 2 Write ratio 12 apples to 18 oranges with three ways ?
 $\frac{12}{18}$, 12:18, 12 to 18
- 3 Find 30% of 250 ?
 $\frac{30}{100} \times 250 = 75$
- 4 A recipe uses sugar and flour in ratio 2:5 in flour = 20 cups, How much sugar ?
sugar : flour
 $\times 4 \left(\begin{array}{l} 2 : 5 \\ ? : 20 \end{array} \right) \times 4$
sugar = 8

5 A Car travels 180 km in 4 hours , find unit rate ?
 $180 \div 4 = 45km/h$

6 How Many 18 in 4?
 $4 \div \frac{1}{8} = 4 \times 8 = 32$

7 Ali works 6km in 1.5 hours, Omar walks 8km in 2 hours
 Who walks faster ?
 $6 \div 1.5 = 4 km/h$
 $8 \div 2 = 4km/h$
same equal

Model (3)

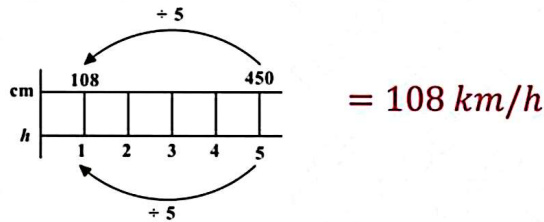
Question 1 : Choose the correct answer :

- 1 $\frac{9}{10} \div \frac{3}{5} = \dots\dots$
 (a) $\frac{27}{50}$ (b) $\frac{54}{30}$ (c) $\frac{3}{2}$ (d) $\frac{6}{5}$
- 2 Which is equivalent to 4: 7 ?
 (a) 8:14 (b) 12:14 (c) 4:14 (d) 28:4
- 3 Number multiplied by $\frac{1}{4}$ equals 6 , what is the number ?
 (a) 24 (b) 10 (c) 12 (d) 30
- 4 In a class , 18 students play football and 6 play basketball , what is the ratio between football : basketball in simplest form ?
 (a) 18:6 (b) 3:1 (c) 1:3 (d) 6:18
- 5 $n \times \frac{1}{5} = \frac{4}{5}$, find the value of n ?
 (a) $\frac{1}{4}$ (b) $\frac{4}{25}$ (c) 4 (d) 25
- 6 20% = ...
 (a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{5}$

- 7 $2.4 \times 1.3 = \dots$
- (a) **3.12** (b) 32.2 (c) 312 (d) 1.32
- 8 Find the reciprocal: $\frac{1}{6}$?
- (a) $\frac{1}{6}$ (b) **6** (c) 7 (d) $\frac{5}{6}$
- 9 Comparison between two quantities from the same kind and the same unit is called ...
- (a) *rate* (b) **ratio** (c) *numerator* (d) *denominator*

Question 2 : Answer the following questions :

- 1 Find the quotient of $3.2 \div 0.32$?
- $\times \frac{32}{100} \div 0.32 = 320 \div 32 = 10$
- 2 540km per 5 hours , find the unit rate using the double line ?



- 3 Find B: $\frac{7}{11} = \frac{21}{B}$?
- $\frac{7}{11} = \frac{21}{b}, \quad B = 33$
- (Note: In the original image, arrows indicate multiplying 7 by 3 to get 21 and 11 by 3 to get b.)

- 4 Mohamed distributed 30 cakes pieces among his friends , and this number represents 60% of the total number of the cake pieces he had with him
- What is total number Mohamed had ?

$$1 \text{ piece} = 60\%$$

$$30 \div \frac{60}{100} = 30 \times \frac{100}{60} = 50 \text{ pieces}$$

- 5 Convert 600cm to meter using the converse factor ?

$$\frac{1m}{100cm} \times \frac{600cm}{1m} = \frac{600}{100} = 6m$$

- 6 Determine the best price to buy between 7 pens for 28 L.E or 10 pens for 30 L.H?

$$\frac{7 \text{ Pens}}{28 \text{ L.E}} = \frac{1}{4} \quad , \quad \frac{10}{30} = \frac{1}{3}$$

$$= 4 \text{ L.} \frac{E}{pens} \quad , \quad = 3 \text{L.} \frac{E}{Pens}$$

best price is 7 pens for 28L.E

- 7 Put the following ratio in simplest form ?

a) 35:45

b) 27:36

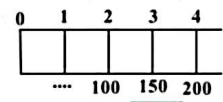
5 ÷ 7 : 9

9 ÷ 3 : 4

Model (4)

Question 1 : Choose the correct answer :

- 1 The missing number in the pattern $\frac{1}{2}, \frac{2}{4}, \dots, \frac{\dots}{8}$ is
- (a) 3 (b) (c) 6 (d) 7
- 2 The least common denominator for the two fractions $\frac{3}{8}$ and $\frac{1}{3}$ is
- (a) (b) 21 (c) 18 (d) 15
- 3 The quotient of $\frac{5}{8} \div 2 = \dots$
- (a) 10 (b) $\frac{5}{4}$ (c) (d) 16
- 4 in the opposite double number line the air condition devices that the factory produces in a day
- (a) 15 (b) 20 (c) 25 (d)
- 5 That unit rate that expresses (Hazem covers by his bicycle 40 m per two minutes) is ..
- (a) $\frac{90m}{2min}$ (b) (c) $\frac{80m}{4min}$ (d) $\frac{60m}{3min}$



- 6 30% of=210
 (a) 400 (b) 500 (c) 600 (d) **700**
- 7 If 6 is a $\frac{1}{4}$ of a number , then the number is
 (a) 4 (b) 6 (c) 18 (d) **24**
- 8 1 liter =milliliters
 (a) 10 (b) 100 (c) **1000** (d) 0.001
- 9 In the opposite tape diagram , ratio of the number of boys to number of girls is
 boys
 girls
 (a) **4:5** (b) 5:4 (c) 4:4 (d) 5:6

Question 2 : Answer the following questions :

- 1 What number gives 35% equal to 70 ?
 $35\% \text{ of } x = 70$
 $70 \div \frac{35}{100} = 70 \times \frac{100}{35} = 200$
- 2 Ali reads 45 pages in 1.5 hours , mona reads 60 pages in 2 hours.
 Who reads faster?
 $45 \div 1.5 = 30 \text{ pages/h}$
 $60 \div 2 = 30 \text{ pages/h}$
same speed
- 3 How many $\frac{2}{3}$ are in 4 ?
 $4 \div \frac{2}{3} = 4 \times \frac{3}{2} = 6$
- 4 A factory produces 720 items in 8 hours , how many in 3 hours ?
 $\times 90 \left(\frac{720}{8} = \frac{\dots}{3} \right) \times 90 \quad 3 \times 90 = 270$

5 $\frac{5}{6} + \left(\frac{1}{3} \times \frac{3}{4}\right)$

$$\frac{5}{6} + \frac{1}{4}$$

$$= \frac{10}{12} + \frac{3}{12} = \frac{13}{12} = 1 \frac{1}{12}$$

- 6 In a class of 40 students, 18 are boys.
a) ratio boys to total ?

$$18:40 \div 2 = 9:20$$

- b) percent boys ?

$$\frac{18}{40} = \frac{9}{20} \xrightarrow{\times 5} \frac{45}{100} = 45\%$$

- 7 A garden is $\frac{5}{6}$ planted, $\frac{1}{5}$ of the planted part is flowers, what fraction of the whole garden is flowers ?

$$\frac{1}{5} \times \frac{5}{6} = \frac{1}{6}$$

Model (5)

Question 1 : Choose the correct answer :

- 1 Which ratio is greatest ?
 (a) 7:9 (b) **4:5** (c) 5:8 (d) 9:12
- 2 At 15 pounds per kg, how many kg can be bought for 90 pounds ?
 (a) 5 (b) **6** (c) 7 (d) 8
- 3 a number is creased by 20% becomes 120, what was the original number ?
 (a) 80 (b) 90 (c) **100** (d) 110
- 4 If $3:4 = x:20$, then $x = \dots$
 (a) 10 (b) 12 (c) **15** (d) 16

- 5) $\frac{9}{12}$ simplify = ...
 (a) $\frac{2}{5}$ (b) $\frac{3}{6}$ (c) $\frac{3}{4}$ (d) $\frac{3}{2}$
- 6) $\frac{4}{5} \div \frac{2}{15} =$
 (a) 6 (b) 3 (c) 5 (d) 4
- 7) 250 by 12% = ...
 (a) 262 (b) 270 (c) 280 (d) 300
- 8) Ratio 1: 4 represent what percent of the whole ?
 (a) 20% (b) 25% (c) 40% (d) 75%
- 9) $\frac{7}{20} = \dots\%$
 (a) 35 (b) 3.5 (c) 70 (d) 0.35

Question 2 : Answer the following questions :

- 1) In a test 24 students speed out of 30 ?
 A) ratio passed to total.

$$24:30 = 4:5$$

b) fraction passed?

$$\frac{24}{30} = \frac{4}{5}$$

c) percent passed?

$$\frac{4}{5} \xrightarrow{\times 20} \frac{80}{100} = 80\%$$

- 2) If the ratio of red to blue balls is 5: 7 , and total are 72 , how many red balls ?

red : blue : total

$$\times 6 \left(\begin{array}{ccc} 5 & : & 7 & : & 12 \\ ? & & & & 72 \end{array} \right) \times 6$$

$$72 \div 12 = 6 , 6 \times 5 = 30$$

- 3) Which is greater?

a) 0.65 or b) $\frac{5}{8}$



a) $\frac{65}{100} = 65\%$

b) $\frac{5}{8 \times 125} = \frac{625}{1000} = 62.5\%$, *A is greater*

4 A shirt costs 900 pounds, it was reduced by 10% , find the new price ?

$$10\% \text{ of } 900 = 90$$

$$900 - 90 = 810 \text{ pounds}$$

5 Find :

A) 0.62×0.52

a)
$$\begin{array}{r} 0.62 \\ \times 0.52 \\ \hline 124 \\ \times 3100 \\ \hline 0.3224 \end{array}$$

b) $\frac{7}{5} \div 2$

b) $\frac{7}{5} \times \frac{1}{2} = \frac{7}{10} = 0.7$

6 Find 25% of 200 ?

$$\frac{25}{100} \times 200 = 50$$

7 A car travels 180km in 3 hours, find speed per hour?

$$180 \div 3 = 60 \text{ km/h}$$

- ② If the ratio of red to blue balls is 5:7 , and total are 72 , how many red balls ?
- ③ Which is greater?
a) 0.65 or b) $\frac{5}{8}$
- ④ A shirt costs 900 pounds, it was reduced by 10% , find the new price ?
- ⑤ Find :
A) 0.62×0.52 b) $\frac{7}{5} \div 2$
- ⑥ Find 25% of 200 ?
- ⑦ A car travels 180km in 3 hours, find speed per hour?

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- 5 $n \times \frac{1}{5} = \frac{4}{5}$, find the value of n ?
 (a) $\frac{1}{4}$ (b) $\frac{4}{25}$ (c) 4 (d) 25
- 6 $20\% = \dots$
 (a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{5}$
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 (a) rate (b) ratio (c) numerator (d) denominator

Question 2 : Answer the following questions :

- 1 Find the quotient of $3.2 \div 0.32$?
- 2 540km per 5 hours , find the unit rate using the double line ?
- 3 Find B: $\frac{7}{11} = \frac{21}{B}$?



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- 7 If 6 is a $\frac{1}{4}$ of a number , then the number is
- (a) 4 (b) 6 (c) 18 (d) 24
- 8 1 liter =milliliters
- (a) 10 (b) 100 (c) 1000 (d) 0.001
- 9 In the opposite tape diagram , ratio of the number of boys to number of girls is
- boys
girls
- (a) 4:5 (b) 5:4 (c) 4:4 (d) 5:6

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- 1 What number gives 35% equal to 70 ?
- 2 Ali reads 45 pages in 1.5 hours , mona reads 60 pages in 2 hours.
Who reads faster?
- 3 How many $\frac{2}{3}$ are in 4 ?
- 4 A factory produces 720 items in 8 hours , how many in 3 hours ?
- 5 $\frac{5}{6} + \left(\frac{1}{3} \times \frac{3}{4}\right)$
- 6 In a class of 40 students, 18 are boys.
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b) percent boys ?
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- ② At 15 pounds per kg , how many kg can be bought for 90 pounds ?
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- ③ a number is creased by 20% becomes 120 , what was the original number ?
 (a) 80 (b) 90 (c) 100 (d) 110
- ④ If $3:4 = x:20$, then $x = \dots$
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- ⑤ $\frac{9}{12}$ simplify = ...
 (a) $\frac{2}{5}$ (b) $\frac{3}{6}$ (c) $\frac{3}{4}$ (d) $\frac{3}{2}$
- ⑥ $\frac{4}{5} \div \frac{2}{15} =$
 (a) 6 (b) 3 (c) 5 (d) 4
- ⑦ 250 by 12% = ...
 (a) 262 (b) 270 (c) 280 (d) 300
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 (a) 20% (b) 25% (c) 40% (d) 75%
- ⑨ $\frac{7}{20} = \dots \%$
 (a) 35 (b) 3.5 (c) 70 (d) 0.35

Question 2 : Answer the following questions :

- ① In a test 24 students speed out of 30 ?
 A) ratio passed to total.
 b) fraction passed?
 c) percent passed?

- 8 A bar is divided into 5 equal parts , 3 parts are shaded , what fraction is not shaded?
 (a) $\frac{3}{5}$ (b) $\frac{2}{5}$ (c) $\frac{5}{3}$ (d) $\frac{1}{5}$
- 9 15 is what percent of 60 ?
 (a) 5% (b) 10% (c) 15% (d) 25%

Question 2 : Answer the following questions :

- 1 a) 1.25×0.4 b) $\frac{4}{5} \div 2 =$
- 2 Write ratio 12 apples to 18 oranges with three ways ?
- 3 Find 30% of 250 ?
- 4 A recipe uses sugar and flour in ratio 2: 5 in flour = 20 cups , How much sugar ?
- 5 A Car travels 180 km in 4 hours , find unit rate ?
- 6 How Many 18 in 4?
- 7 Ali works 6km in 1.5 hours, Omar walks 8km in 2 hours Who walks faster ?

Model (3)

Question 1 : Choose the correct answer :

- 1 $\frac{9}{10} \div \frac{3}{5} =$
 (a) $\frac{27}{50}$ (b) $\frac{54}{30}$ (c) $\frac{3}{2}$ (d) $\frac{6}{5}$

- ④ Simplify 24: 36 ?
- ⑤ 150km in 5 hours , find unit rate ?
- ⑥ Find 30% of 250?
- ⑦ Ratio of boys to girls is 3: 4 and total student is 28, find the number of boys ?

Model (2)

Question 1 : Choose the correct answer :

- ① $\frac{3}{4} \times \frac{2}{5} = \dots$ (simplest)
- Ⓐ $\frac{6}{20}$ Ⓑ $\frac{3}{10}$ Ⓒ $\frac{5}{8}$ Ⓓ $\frac{6}{9}$
- ② Ratio of 8 boys to 4 girls in simplest form :
- Ⓐ 8: 4 Ⓑ 4: 2 Ⓒ 2: 1 Ⓓ 1: 2
- ③ Unit rate of 120 km in 3 hours.
- Ⓐ 40km/h Ⓑ 30km/h Ⓒ 60km/h Ⓓ 90km/h
- ④ $0.6 \times 0.4 = \dots$
- Ⓐ 2.4 Ⓑ 24 Ⓒ 0.24 Ⓓ 4.2
- ⑤ $\frac{3}{5}$ of 20 = ...?
- Ⓐ 6 Ⓑ 12 Ⓒ 15 Ⓓ 10
- ⑥ 25% as decimal is
- Ⓐ 0.25 Ⓑ 2.5 Ⓒ 25 Ⓓ 0.025
- ⑦ $\frac{5}{6} \div \frac{1}{3} = \dots$
- Ⓐ $\frac{5}{18}$ Ⓑ $\frac{15}{6}$ Ⓒ $\frac{5}{2}$ Ⓓ $\frac{1}{5}$

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Question 1 : Choose the correct answer :

- ① A car travels 180km in 3 hours the unit rate is
 (a) 30k/h (b) 60km / h (c) 90km/h (d) 120km/h
- ② Simplify the ratio 12: 18 is
 (a) 2: 3 (b) 3: 2 (c) 6: 9 (d) 4: 5
- ③ 35% of 80 =
 (a) 10 (b) 15 (c) 28 (d) 25
- ④ $\frac{3}{5} \times 10 = \dots$
 (a) 5 (b) 6 (c) 7 (d) 8
- ⑤ Convert 4.5 kg to grams =.....
 (a) 45 (b) 450 (c) 4500 (d) 45000
- ⑥ Reciprocal of 5=.....
 (a) $\frac{1}{5}$ (b) 5 (c) -5 (d) 0
- ⑦ $6 \div 0.3 = \dots$
 (a) 2 (b) 20 (c) 18 (d) 15
- ⑧ Equivalent ratio of 3: 4
 (a) 6: 10 (b) 9: 12 (c) 12: 15 (d) 5: 8
- ⑨ 40 is 20% of
 (a) 80 (b) 100 (c) 200 (d) 400

Question 2 : Answer the following questions :

- ① $\frac{7}{8} \div \frac{1}{4}$
- ② Convert 3500m to km ?
- ③ A book costs 120 pounds . increase 10% find new price ?

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