



AHMED NASSR
MATH TEACHER

MATH

FEB REV

6TH
GRADE
SECOND TERM

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Prepared by
AHMED NASSR



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01: CHOOSE THE CORRECT ANSWER

1 The division operation represented by the following tape diagram is



a $3 \div \frac{1}{2}$

b $3 \div \frac{1}{3}$

c $3 \div \frac{1}{4}$

d $3 \div \frac{2}{5}$

2 The reciprocal of $\frac{1}{8}$ is

a -8

b 8

c $\frac{1}{8}$

d $-\frac{1}{8}$

3 The reciprocal of $3\frac{3}{4}$ is

a $\frac{15}{4}$

b $3\frac{4}{3}$

c $\frac{4}{15}$

d $3\frac{4}{15}$

4 $\frac{5}{7} \div \dots = 1$

a $\frac{5}{7}$

b 1

c $\frac{1}{5}$

d $\frac{7}{5}$

5 $\frac{3}{8} \times \dots = 1$

a $\frac{3}{8}$

b 1

c $\frac{8}{5}$

d $2\frac{2}{3}$

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

a $\frac{1}{25}$

b 1

c 25

d 5

7 Any number multiplied by its reciprocal equals

a 1

b 0

c same number

d double number

8 The reciprocal of the number is $4\frac{2}{5}$

a $\frac{22}{5}$

b $4\frac{5}{2}$

c $\frac{5}{22}$

d $\frac{2}{11}$

9 $\frac{5}{8} \div \dots = \frac{1}{2}$

a $\frac{8}{5}$

b $\frac{5}{16}$

c $1\frac{1}{4}$

d $\frac{4}{5}$



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GRADE 6 - UNIT (8)

10 $\div \frac{1}{2} = \frac{1}{3}$

a $\frac{1}{6}$

b 6

c $\frac{3}{1}$

d $\frac{2}{3}$

11 $4.5 \div 0.09 = \dots \div 9$

a 0.45

b 450

c 45

d 4.5

12 How many $\frac{3}{5}$'s are in 9 apples?

a $\frac{27}{5}$

b 15

c $\frac{1}{15}$

d $15\frac{2}{3}$

13 If $25 \times 33 = 825$, then $0.25 \times 3.3 = \dots$

a 82.5

b 8.25

c 0.852

d 0.825

14 $\div 2.15 = 1,200 \div 215$

a 120

b 12

c 1.2

d 1200

15 If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 = \dots$

a 312

b 3.12

c 31.2

d 0.312

16 $\times \frac{3}{5} = \frac{3}{4}$

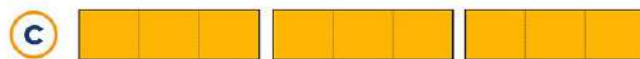
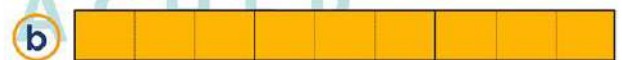
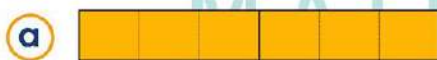
a $\frac{4}{15}$

b $1\frac{1}{4}$

c $\frac{9}{20}$

d $2\frac{2}{9}$

17 The tape diagram representing the division process ($3 \div \frac{1}{2}$) is



18 $5.2 \times 0.3 = \dots$

a 0.156

b 1.56

c 15.6

d 156

19 $0.55 \div 0.011 = \dots \div 11$

a 55

b 550

c 5,500

d 5.5

20 $5 \times \dots = 1$

a $\frac{25}{5}$

b 1

c $\frac{1}{5}$

d 0



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Q2: COMPLETE THE FOLLOWING

- 1 The reciprocal of 9 is
- 2 $\div \frac{2}{5} = \frac{2}{7}$
- 3 $\frac{5}{7} \div \frac{2}{14} = \dots \times \dots = \dots$
- 4 $0.07 \times 0.14 = \dots$
- 5 $\div \frac{5}{7} = \frac{7}{8} \times \dots$
- 6 $10 \div \frac{5}{9} = \dots$
- 7 $2 \div 0.25 = \dots \div \dots = \dots$
- 8 $\div \dots = \frac{3}{5} \times \frac{4}{3}$
- 9 $\frac{2}{3} \div \frac{4}{9} = \dots$
- 10 $4 \div \frac{3}{5} = \dots$
- 11 $\frac{6}{7} \div 3 = \dots$
- 12 $\div 0.8 = 2.3$
- 13 $1.5 \times \dots = 150$
- 14 $\frac{6}{9}$ of $\frac{9}{6} = \dots$
- 15 $\frac{5}{6} \div \dots = 5$
- 16 If $10.35 \div 2.3 = 4.5$, then $23 \times 4.5 = \dots$
- 17 The number which which has no reciprocal is



Q3: ANSWER THE FOLLOWING

1 Soha divided 127.5 LE among her three sons. Find the share of each one.

.....

2 Find the value of y in each of the following.

a $\frac{4}{5} \div y = \frac{1}{4}$

b $\frac{4}{5} \times y = 1$

.....

3 Fatma wants to divide a piece of fabric of length $\frac{3}{4}$ meter into smaller pieces each of length $\frac{3}{8}$ meter. How many pieces are there?

.....

4 If a slice of one pizza costs 12.25 pounds, how much do 13 pieces of the same type cost?

.....

5 Suppose you have $\frac{8}{10}$ kg of clay, and you want to cut it into equal pieces of $\frac{1}{5}$ kg each, how many pieces can you make?

.....

6 If $53 \times 31 = 1,643$, then:

a $16.43 \div 31 = \dots\dots\dots$

b $3.1 \times 0.53 = \dots\dots\dots$

c $31 \times 5.3 = \dots\dots\dots$

d $1643 \div 5.3 = \dots\dots\dots$

7 Answer the following:

a $\frac{1}{2} \div 2 = \dots\dots\dots$

b $3\frac{3}{5} \times \frac{5}{6} = \dots\dots\dots$

c $6 \times \frac{1}{6} = \dots\dots\dots$

d $12 \div \frac{4}{9} = \dots\dots\dots$

8 How much is $\frac{1}{4}$ the number 20?

.....



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Q1: CHOOSE THE CORRECT ANSWER

- 1 The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is
- a 3 : 8 b 3 : 5 c 5 : 8 d 5 : 3
- 2 The ratio between the perimeter of a square to its side length is
- a 1 : 4 b 4 : 1 c 3 : 1 d 1 : 3
- 3 $77 : 49 = \dots : \dots$
- a 7 : 11 b 7 : 1 c 11 : 7 d 11 : 1
- 4 Which ratio of the following does not equal fourth?
- a $\frac{4}{16}$ b $\frac{5}{20}$ c $\frac{7}{28}$ d $\frac{10}{45}$
- 5 The ratio between two number is 2:5. If the first number becomes 8, then the second number will be
- a 8 b 10 c 15 d 20
- 6 $\frac{6}{7}$ is equivalent to
- a $\frac{7}{6}$ b $\frac{18}{14}$ c $\frac{42}{49}$ d $\frac{35}{30}$
- 7 The ratio between two side lengths of rhombus is
- a 1 : 4 b 1 : 3 c 1 : 2 d 1 : 1
- 8 The ratio between the side of an equilateral triangle to its perimeter is :
- a 1 : 4 b 4 : 1 c 3 : 1 d 1 : 3
- 9 Merolla spends 120 LE in 4 days, then the rate of what she spends is LE/day.
- a 300 b 30
c 25 d 250



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GRADE 6 - UNIT (9)

10 If $4 : x = 12 : 18$, then $x = \dots\dots\dots$

- (a) 6 (b) 9 (c) 15 (d) 18

11 If $8 : x = 0.5$, then $x = \dots\dots\dots$

- (a) 4 (b) 8 (c) 16 (d) 40

12 $\frac{7}{\dots} = \frac{28}{48}$

- (a) 10 (b) 12 (c) 14 (d) 16

13 Sandy reads 140 pages of stories weekly, then she reads $\dots\dots\dots$ pages daily

- (a) 20 (b) 7 (c) 14 (d) 70

14 If $3 : x - 1 = 4 : 8$, then $x = \dots\dots\dots$

- (a) 5 (b) 7 (c) 8 (d) 9

15 If $3 : 5 = 12 : 2x$, then $x = \dots\dots\dots$

- (a) 20 (b) 24 (c) 12 (d) 10

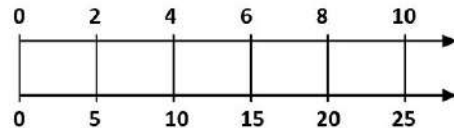
16 $\dots\dots\dots$ are two equivalent ratios

- (a) $\frac{6}{7}, \frac{18}{14}$ (b) $\frac{2}{3}, \frac{8}{16}$ (c) $\frac{4}{5}, \frac{60}{75}$ (d) $\frac{1}{2}, \frac{2}{5}$

17 If $a : b$ and $c : d$ are equivalent ratios then $\dots\dots\dots$

- (a) $a \times b = c \times d$ (b) $a \times c = b \times d$ (c) $a \times d = b \times c$ (d) $a + d = b + c$

18 The ratio representing the opposite double line number is $\dots\dots\dots$



- (a) 2 : 3 (b) 3 : 5 (c) 2 : 5 (d) 2 : 7

19 The ratio representing the opposite tape diagram is $\dots\dots\dots$



- (a) 3 : 4 (b) 3 : 7
(c) 4 : 3 (d) 4 : 7



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- 20 The second term in the ratio $\frac{7}{12}$ is
- (a) 0 (b) 7 (c) 1 (d) 12
- 21 An amount of food is distributed between two people in the ratio 3 : 4 then what the first person took = the total.
- (a) $\frac{3}{4}$ (b) $\frac{3}{7}$ (c) $\frac{4}{7}$ (d) $\frac{4}{3}$
- 22 A water tap is leaking 240 litres of water in one hour, then the rate of leaking = L/min.
- (a) 240 (b) 4 (c) 40 (d) 6
- 23 30 L.E for 5 kg, then the cost of 30 kg is L.E
- (a) 5 (b) 30 (c) 90 (d) 180
- 24 To find the simplest form of the ratio 8 : 16, we divide the two terms by
- (a) 16 (b) 8 (c) 6 (d) 1
- 25 Which pair shows equivalent ratios ?
- (a) $\frac{3}{4}$, 16 to 20 (b) $\frac{25}{50}$, 1 : 2 (c) $\frac{4}{8}$, $\frac{3}{9}$ (d) 1 : 3, 3 : 6
- 26 If the ratio between a and b is 1 : 3 and the sum of a and b is 20 ,then b =
- (a) 16 (b) 4 (c) 15 (d) 80
- 27 From the opposite equivalent ratios
A + B =
- | | | |
|---|----|----|
| 4 | 36 | B |
| 9 | A | 36 |
- (a) 98 (b) 97 (c) 96 (d) 95
- 28 The next ratio of 2 : 5 , 6 : 15 , 18 : 45 ,
- (a) 54 : 135 (b) 36 : 90
(c) 54 : 90 (d) 54 : 180



- 29 If $\frac{x+3}{14} = \frac{1}{2}$, then $x = \dots\dots\dots$
- (a) 14 (b) 7 (c) 4 (d) 3
- 30 Carpenter needs 30 m^3 to make 5 tables, then the rate of used wood = $\dots\dots \text{ m}^3$ /table.
- (a) 6 (b) 3 (c) 5 (d) 150
- 31 If $x : 15 = 3 : 5$, then $x + 4 = \dots\dots\dots$
- (a) 8 (b) 9 (c) 5 (d) 13
- 32 If the ratio between two numbers is $3 : 5$ and the smaller number is 12, then the greater number is $\dots\dots$
- (a) 15 (b) 20 (c) 36 (d) 12
- 33 If $3 : 5 = 12 : 4x$, then $x = \dots\dots\dots$
- (a) 20 (b) 24 (c) 5 (d) 10
- 34 A worker paints a wall with an area of 36 m^2 in 4 hours, then the rate of painting is $\dots\dots\dots \text{ m}^2/\text{hr}$.
- (a) 7 (b) 8 (c) 9 (d) 10

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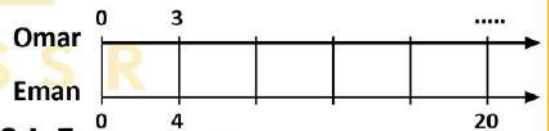
Q2: COMPLETE THE FOLLOWING

- 1 $4 : 7 = \dots\dots\dots : 42$
- 2 If $6 : x = 10 : 32$, then $x = \dots\dots\dots$
- 3 $\frac{3}{5} = \frac{\dots}{15} = \frac{27}{\dots} = \frac{\dots}{\dots}$
- 4 If $3 : 7 = x : 28$, then $x - 2 = \dots\dots\dots$
- 5 If $\frac{x}{9} = \frac{4}{x}$, then value of $x = \dots\dots\dots$
- 6 $\frac{x}{5} = 5$, then $x = \dots\dots\dots$



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- 7 it is a comparison between two quantities that have different units
- 8 $240 : 360 = \dots : \dots$ (in the simplest form)
- 9 If $\frac{7}{k}$ equivalent to $\frac{1}{4}$, then $k = \dots$
- 10 Gehan bought 2 kg of apples for 120 L.E, then she paid L.E to buy 4.5 kg
- 11 The ratio between the perimeter of equilateral triangle and its side length is :
- 12 $x + 4 : 12 = 5 : 15$, then the value of $x = \dots$
- 13 The ratio between side length of a square to its perimeter is :
- 14 $\frac{y}{3}$ and 7 are two equivalent ratios, then $y = \dots$
- 15 In the ratio 9 : 5, the first term is and the second term is
- 16 A ship covered 360 km in 4 hours, then the speed of the ship is km/hr.
- 17 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is : 
- 18 From the opposite double number line, if the ratio between what Omar saved to what Eman saved was 3 : 4 if Eman saved 20 L.E. then Omar saved L.E.



Q3: ANSWER THE FOLLOWING

- 1 In a classroom, if the ratio of the number of boys to the number of girls is 3 to 2, and the total number of pupils in the class is 45, How many girls are in the class?

.....

.....

- 2 If the price of 5 pens is 25 pounds, express this using rate words?

.....



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3 A car consumed 640 liters of gasoline in 4 months. How many liters did the car consume on average in one month?

.....

4 If Murad has 40 L.E. and Ahmed has 32 L.E. Find the ratio between what Murad has and the total sum of money in simplest form.

.....

5 A car travels a distance of 120 kilometres in two hours, express this using the word average?

.....

6 If 100 grams of chocolate give 300 calories, if we had only 40 grams of chocolate, so how many calories would we get?

.....

7 Saja uploads videos into YouTube, if the video takes 15 minutes:

- a** How many videos will be uploaded in 375 minutes?
- b** How long will Saja take to upload 4 videos to YouTube?

.....

8 Write a ratio that is equivalent to ratio 3 : 4?

.....

9 The number of students in a school is 540, if the number of boys in school is 300, Find: The ratio between the number of boys and the number of girls.

.....

10 Marwan has 980 LE. He spends 420 LE. Complete:

- a** The money that he spends : the total money = :
- b** The money that he saves : the money that he spends = :

11 Is the ratio $\frac{15}{35}$ equivalent to the ratio $\frac{3}{7}$?

.....



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01: CHOOSE THE CORRECT ANSWER

1 The division operation represented by the following tape diagram is



a $3 \div \frac{1}{2}$

b $3 \div \frac{1}{3}$

c $3 \div \frac{1}{4}$

d $3 \div \frac{2}{5}$

2 The reciprocal of $\frac{1}{8}$ is

a -8

b 8

c $\frac{1}{8}$

d $-\frac{1}{8}$

3 The reciprocal of $3\frac{3}{4}$ is

a $\frac{15}{4}$

b $3\frac{4}{3}$

c $\frac{4}{15}$

d $3\frac{4}{15}$

4 $\frac{5}{7} \div \dots = 1$

a $\frac{5}{7}$

b 1

c $\frac{1}{5}$

d $\frac{7}{5}$

5 $\frac{3}{8} \times \dots = 1$

a $\frac{3}{8}$

b 1

c $\frac{8}{5}$

d $2\frac{2}{3}$

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

a $\frac{1}{25}$

b 1

c 25

d 5

7 Any number multiplied by its reciprocal equals

a 1

b 0

c same number

d double number

8 The reciprocal of the number is $4\frac{2}{5}$

a $\frac{22}{5}$

b $4\frac{5}{2}$

c $\frac{5}{22}$

d $\frac{2}{11}$

9 $\frac{5}{8} \div \dots = \frac{1}{2}$

a $\frac{8}{5}$

b $\frac{5}{16}$

c $1\frac{1}{4}$

d $\frac{4}{5}$



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10 $\div \frac{1}{2} = \frac{1}{3}$

a $\frac{1}{6}$

b 6

c $\frac{3}{1}$

d $\frac{2}{3}$

11 $4.5 \div 0.09 = \dots \div 9$

a 0.45

b 450

c 45

d 4.5

12 How many $\frac{3}{5}$'s are in 9 apples?

a $\frac{27}{5}$

b 15

c $\frac{1}{15}$

d $15\frac{2}{3}$

13 If $25 \times 33 = 825$, then $0.25 \times 3.3 = \dots$

a 82.5

b 8.25

c 0.852

d 0.825

14 $\div 2.15 = 1,200 \div 215$

a 120

b 12

c 1.2

d 1200

15 If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 = \dots$

a 312

b 3.12

c 31.2

d 0.312

16 $\times \frac{3}{5} = \frac{3}{4}$

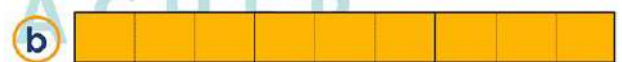
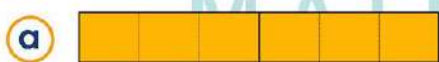
a $\frac{4}{15}$

b $1\frac{1}{4}$

c $\frac{9}{20}$

d $2\frac{2}{9}$

17 The tape diagram representing the division process ($3 \div \frac{1}{2}$) is



18 $5.2 \times 0.3 = \dots$

a 0.156

b 1.56

c 15.6

d 156

19 $0.55 \div 0.011 = \dots \div 11$

a 55

b 550

c 5,500

d 5.5

20 $5 \times \dots = 1$

a $\frac{25}{5}$

b 1

c $\frac{1}{5}$

d 0



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Q2: COMPLETE THE FOLLOWING

1 The reciprocal of 9 is $\dots\dots\dots \frac{1}{9} \dots\dots$

2 $\dots\dots\dots \frac{4}{35} \dots\dots \div \frac{2}{5} = \frac{2}{7}$

3 $\frac{5}{7} \div \frac{2}{14} = \dots\dots\dots \frac{5}{7} \dots\dots \times \dots\dots \frac{14}{2} \dots\dots = \dots\dots 5 \dots\dots$

4 $0.07 \times 0.14 = \dots\dots\dots 0.0098 \dots\dots$

5 $\dots\dots\dots \frac{7}{8} \dots\dots \div \frac{5}{7} = \frac{7}{8} \times \dots\dots\dots \frac{7}{5} \dots\dots$

6 $10 \div \frac{5}{9} = \dots\dots 18 \dots\dots$

7 $2 \div 0.25 = \dots\dots\dots 200 \dots\dots \div \dots\dots 25 \dots\dots = \dots\dots 8 \dots\dots$

8 $\dots\dots\dots \frac{3}{5} \dots\dots \div \dots\dots\dots \frac{3}{4} \dots\dots = \frac{3}{5} \times \frac{4}{3}$

9 $\frac{2}{3} \div \frac{4}{9} = \dots\dots\dots 1 \frac{1}{2} \dots\dots$

10 $4 \div \frac{3}{5} = \dots\dots\dots 6 \frac{2}{3} \dots\dots$

11 $\frac{6}{7} \div 3 = \dots\dots\dots \frac{2}{7} \dots\dots$

12 $\dots\dots\dots 1.84 \dots\dots \div 0.8 = 2.3$

13 $1.5 \times \dots\dots\dots 100 \dots\dots = 150$

14 $\frac{6}{9}$ of $\frac{9}{6} = \dots\dots 1 \dots\dots$

15 $\frac{5}{6} \div \dots\dots\dots \frac{1}{6} \dots\dots = 5$

16 If $10.35 \div 2.3 = 4.5$, then $23 \times 4.5 = \dots\dots\dots 103.5 \dots\dots$

17 The number which which has no reciprocal is $\dots\dots\dots \text{zero} \dots\dots$



Q3: ANSWER THE FOLLOWING

- 1 Soha divided 127.5 LE among her three sons. Find the share of each one.

.....
42.5 L.E

- 2 Find the value of y in each of the following.

a $\frac{4}{5} \div y = \frac{1}{4}$

b $\frac{4}{5} \times y = 1$

.....
 $3\frac{1}{5}$

.....
 $\frac{5}{4}$

- 3 Fatma wants to divide a piece of fabric of length $\frac{3}{4}$ meter into smaller pieces each of length $\frac{3}{8}$ meter. How many pieces are there?

.....
2 pieces

- 4 If a slice of one pizza costs 12.25 pounds, how much do 13 pieces of the same type cost?

.....
159.25 L.E

- 5 Suppose you have $\frac{8}{10}$ kg of clay, and you want to cut it into equal pieces of $\frac{1}{5}$ kg each, how many pieces can you make?

.....
4 pieces

- 6 If $53 \times 31 = 1,643$, then:

a $16.43 \div 31 = \dots\dots$ **0.53**.....

b $3.1 \times 0.53 = \dots\dots$ **1.643**.....

c $31 \times 5.3 = \dots\dots$ **164.3**.....

d $1643 \div 5.3 = \dots\dots$ **310**.....

- 7 Answer the following:

a $\frac{1}{2} \div 2 = \dots\dots$ **$\frac{1}{4}$**

b $3\frac{3}{5} \times \frac{5}{6} = \dots\dots$ **3**.....

c $6 \times \frac{1}{6} = \dots\dots$ **1**.....

d $12 \div \frac{4}{9} = \dots\dots$ **27**.....

- 8 How much is $\frac{1}{4}$ the number 20?

.....
80



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Q1: CHOOSE THE CORRECT ANSWER

- 1 The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is
- (a) 3 : 8 (b) 3 : 5 (c) 5 : 8 (d) 5 : 3
- 2 The ratio between the perimeter of a square to its side length is
- (a) 1 : 4 (b) 4 : 1 (c) 3 : 1 (d) 1 : 3
- 3 $77 : 49 = \dots : \dots$
- (a) 7 : 11 (b) 7 : 1 (c) 11 : 7 (d) 11 : 1
- 4 Which ratio of the following does not equal fourth?
- (a) $\frac{4}{16}$ (b) $\frac{5}{20}$ (c) $\frac{7}{28}$ (d) $\frac{10}{45}$
- 5 The ratio between two number is 2:5. If the first number becomes 8, then the second number will be
- (a) 8 (b) 10 (c) 15 (d) 20
- 6 $\frac{6}{7}$ is equivalent to
- (a) $\frac{7}{6}$ (b) $\frac{18}{14}$ (c) $\frac{42}{49}$ (d) $\frac{35}{30}$
- 7 The ratio between two side lengths of rhombus is
- (a) 1 : 4 (b) 1 : 3 (c) 1 : 2 (d) 1 : 1
- 8 The ratio between the side of an equilateral triangle to its perimeter is :
- (a) 1 : 4 (b) 4 : 1 (c) 3 : 1 (d) 1 : 3
- 9 Merolla spends 120 LE in 4 days, then the rate of what she spends is LE/day.
- (a) 300 (b) 30 (c) 25 (d) 250



10 If $4 : x = 12 : 18$, then $x = \dots\dots\dots$

- a 6 b 9 c 15 d 18

11 If $8 : x = 0.5$, then $x = \dots\dots\dots$

- a 4 b 8 c 16 d 40

12 $\frac{7}{\dots} = \frac{28}{48}$

- a 10 b 12 c 14 d 16

13 Sandy reads 140 pages of stories weekly, then she reads $\dots\dots\dots$ pages daily

- a 20 b 7 c 14 d 70

14 If $3 : x - 1 = 4 : 8$, then $x = \dots\dots\dots$

- a 5 b 7 c 8 d 9

15 If $3 : 5 = 12 : 2x$, then $x = \dots\dots\dots$

- a 20 b 24 c 12 d 10

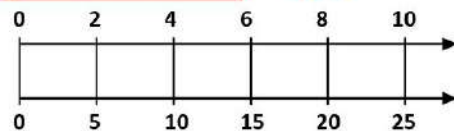
16 $\dots\dots\dots$ are two equivalent ratios

- a $\frac{6}{7}, \frac{18}{14}$ b $\frac{2}{3}, \frac{8}{16}$ c $\frac{4}{5}, \frac{60}{75}$ d $\frac{1}{2}, \frac{2}{5}$

17 If $a : b$ and $c : d$ are equivalent ratios then $\dots\dots\dots$

- a $a \times b = c \times d$ b $a \times c = b \times d$ c $a \times d = b \times c$ d $a + d = b + c$

18 The ratio representing the opposite double line number is $\dots\dots\dots$



- a 2 : 3 b 3 : 5 c 2 : 5 d 2 : 7

19 The ratio representing the opposite tape diagram is $\dots\dots\dots$



- a 3 : 4 b 3 : 7
 c 4 : 3 d 4 : 7



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- 20 The second term in the ratio $\frac{7}{12}$ is
- (a) 0 (b) 7 (c) 1 (d) 12
- 21 An amount of food is distributed between two people in the ratio 3 : 4 then what the first person took = the total.
- (a) $\frac{3}{4}$ (b) $\frac{3}{7}$ (c) $\frac{4}{7}$ (d) $\frac{4}{3}$
- 22 A water tap is leaking 240 litres of water in one hour, then the rate of leaking = L/min.
- (a) 240 (b) 4 (c) 40 (d) 6
- 23 30 L.E for 5 kg, then the cost of 30 kg is L.E
- (a) 5 (b) 30 (c) 90 (d) 180
- 24 To find the simplest form of the ratio 8 : 16, we divide the two terms by
- (a) 16 (b) 8 (c) 6 (d) 1
- 25 Which pair shows equivalent ratios ?
- (a) $\frac{3}{4}$, 16 to 20 (b) $\frac{25}{50}$, 1 : 2 (c) $\frac{4}{8}$, $\frac{3}{9}$ (d) 1 : 3, 3 : 6
- 26 If the ratio between a and b is 1 : 3 and the sum of a and b is 20 ,then b =
- (a) 16 (b) 4 (c) 15 (d) 80
- 27 From the opposite equivalent ratios
A + B =
- | | | |
|---|----|----|
| 4 | 36 | B |
| 9 | A | 36 |
- (a) 98 (b) 97 (c) 96 (d) 95
- 28 The next ratio of 2 : 5 , 6 : 15 ,18 : 45 ,
- (a) 54 : 135 (b) 36 : 90
(c) 54 : 90 (d) 54 : 180



- 29 If $\frac{x+3}{14} = \frac{1}{2}$, then $x = \dots\dots\dots$
- (a) 14 (b) 7 (c) 4 (d) 3
- 30 Carpenter needs 30 m^3 to make 5 tables, then the rate of used wood = $\dots\dots \text{ m}^3 / \text{table}$.
- (a) 6 (b) 3 (c) 5 (d) 150
- 31 If $x : 15 = 3 : 5$, then $x + 4 = \dots\dots\dots$
- (a) 8 (b) 9 (c) 5 (d) 13
- 32 If the ratio between two numbers is $3 : 5$ and the smaller number is 12, then the greater number is $\dots\dots$
- (a) 15 (b) 20 (c) 36 (d) 12
- 33 If $3 : 5 = 12 : 4x$, then $x = \dots\dots\dots$
- (a) 20 (b) 24 (c) 5 (d) 10
- 34 A worker paints a wall with an area of 36 m^2 in 4 hours, then the rate of painting is $\dots\dots\dots \text{ m}^2 / \text{hr}$.
- (a) 7 (b) 8 (c) 9 (d) 10


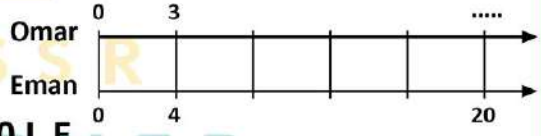
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Q2: COMPLETE THE FOLLOWING

- 1 $4 : 7 = \dots\dots\dots : 42$
- 2 If $6 : x = 10 : 32$, then $x = \dots\dots\dots$
- 3 $\frac{3}{5} = \frac{9}{15} = \frac{27}{45} = \frac{.6}{.10}$
- 4 If $3 : 7 = x : 28$, then $x - 2 = \dots\dots\dots$
- 5 If $\frac{x}{9} = \frac{4}{x}$, then value of $x = \dots\dots\dots$
- 6 $\frac{x}{5} = 5$, then $x = \dots\dots\dots$



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- 7 **Rate** it is a comparison between two quantities that have different units
- 8 $240 : 360 = \dots\dots 2 \dots\dots : \dots\dots 3 \dots\dots$ (in the simplest form)
- 9 If $\frac{7}{k}$ equivalent to $\frac{1}{4}$, then $k = \dots\dots 28 \dots\dots$
- 10 Gehan bought 2 kg of apples for 120 L.E, then she paid **270** L.E to buy 4.5 kg
- 11 The ratio between the perimeter of equilateral triangle and its side length is **3** : **1**
- 12 $x + 4 : 12 = 5 : 15$, then the value of $x = \dots\dots 0 \dots\dots$
- 13 The ratio between side length of a square to its perimeter is **1** : **4**
- 14 $\frac{y}{3}$ and 7 are two equivalent ratios, then $y = \dots\dots 21 \dots\dots$
- 15 In the ratio 9 : 5, the first term is **9** and the second term is **5**
- 16 A ship covered 360 km in 4 hours, then the speed of the ship is **90** km/hr.
- 17 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is **3** : **2**
- 
- 18 From the opposite double number line, if the ratio between what Omar saved to what Eman saved was 3 : 4 if Eman saved 20 L.E. then Omar saved **15** L.E
- 

Q3: ANSWER THE FOLLOWING

- 1 In a classroom, if the ratio of the number of boys to the number of girls is 3 to 2, and the total number of pupils in the class is 45, How many girls are in the class?
Number of girls is 18
- 2 If the price of 5 pens is 25 pounds, express this using rate words?
5 Pounds/pen



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- 3 A car consumed 640 liters of gasoline in 4 months. How many liters did the car consume on average in one month?

160 L/month

- 4 If Murad has 40 L.E. and Ahmed has 32 L.E. Find the ratio between what Murad has and the total sum of money in simplest form.

5 : 9

- 5 A car travels a distance of 120 kilometres in two hours, express this using the word average?

60 km/hr

- 6 If 100 grams of chocolate give 300 calories, if we had only 40 grams of chocolate, so how many calories would we get?

120 calories

- 7 Saja uploads videos into YouTube, if the video takes 15 minutes:

- a How many videos will be uploaded in 375 minutes? 25 videos
b How long will Saja take to upload 4 videos to YouTube? 60 minutes

- 8 Write a ratio that is equivalent to ratio 3 : 4?

6 : 8

- 9 The number of students in a school is 540, if the number of boys in school is 300, Find: The ratio between the number of boys and the number of girls.

5 : 4

- 10 Marwan has 980 LE. He spends 420 LE. Complete:

- a The money that he spends : the total money = $\frac{3}{7}$: $\frac{7}{7}$
b The money that he saves : the money that he spends = $\frac{4}{3}$: $\frac{3}{3}$

- 11 Is the ratio $\frac{15}{35}$ equivalent to the ratio $\frac{3}{7}$?

yes, equivalent ratios





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