

MATH

Feb & Mar Revision

6th Grade

MATH

Revision by Ahmed Nassr

1	2	+	4	3	6	7	9
1	2	5	3	+	5	+	6
3	3	+	4	+	7	10	
1	8	+	7	-	8		
8	8	4	-		8		
1	0	7	5	=	6	=	7
		+	2	+	52	+	4

$8 \div 14$

$\frac{27}{7} = 11$

$+4 = 0.2$

$2, 1 = 1$

$+\frac{1}{2} = \frac{1}{1} = -1.3$

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

$2+1=2$

$5 \frac{1}{2} = \frac{11}{2} = \frac{11}{2}$

$NA = \frac{11}{5} \frac{1}{2}$

$4y = 18$

$14 - 2$

$\frac{1}{2} + \frac{1}{2}$

$3 + \frac{1}{2} + 1$



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أحمد نصر

Q1: 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 $\frac{4}{5}$



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

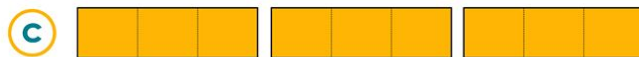
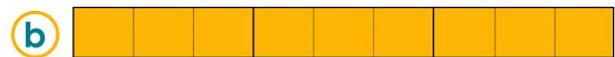
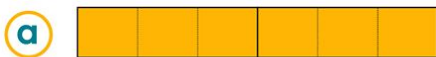
a) $\frac{4}{15}$

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

- (a) 55 (b) 550 (c) 5,500 (d) 5.5

20) $5 \times \dots\dots\dots = 1$

- (a) $\frac{25}{5}$ (b) 1 (c) $\frac{1}{5}$ (d) 0

21) If 6 is a $\frac{1}{4}$ of a number, then the number is

- (a) 4 (b) 6 (c) 18 (d) 24

22) If $\frac{1}{8}$ of a number is 40, then the number is

- (a) 40 (b) 320 (c) 24 (d) 16

23) To carry out the division operation $6.25 \div 0.025$ we multiply both of the dividend and the divisor by

- (a) 10 (b) 100 (c) 1,000 (d) 250

Q2: Answer The Following

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

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

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

4) If $10.35 \div 2.3 = 4.5$, then $23 \times 4.5 = \dots\dots\dots$



5 The number which has no reciprocal is

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

7 Hana divided 127.5 LE among her three sons. Find the share of each one.

8 Shaimaa has 4 liters of juice and wants to divide it into bottles with a capacity of $\frac{2}{3}$ liters. Find the number of bottles needed, using tape diagrams.

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

10 Youssef bought $\frac{9}{10}$ kg of clay and wants to divide it into pieces, where the mass of each piece is $\frac{3}{5}$ kg.

11 The reciprocal of 9 is

12 $\dots\dots \div \frac{5}{7} = \frac{7}{8} \times \dots\dots\dots$

13 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 $1643 \div 5.3 = \dots\dots\dots$

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

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



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

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

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

17 $4 \div \frac{3}{5} = \dots\dots\dots$

--	--	--

18 $\dots\dots\dots \div 0.8 = 2.3$

19 $\frac{6}{9}$ of $\frac{9}{6} = \dots\dots\dots$

20 Find the result of multiplying each of the following using the standard algorithm:

a 2.31×0.23

b 12×3.6

21 $2 \div 0.25 = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$



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 If 9 to 10 is equivalent to 72 : B, then B =
- a 8 b 80 c 7 d 70
- 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 Jana 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

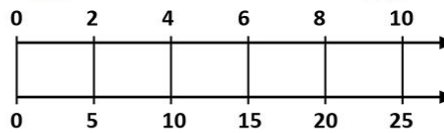
16 $\dots\dots\dots$ are two equivalent ratios

- (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 $\dots\dots\dots$

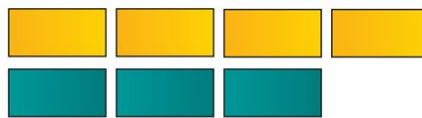
- (a) $a \times b = c \times d$ (b) $a \times c = b \times d$ (c) $a \times d = b \times c$ (d) $a + d = b + c$

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



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



Q2: Answer The Following

1 Haneen uses 5 spoons of butter for every 3 loaves of bread she bakes. Calculate the number of spoons of butter she needs to make 5 loaves of the same type of bread.

2 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.

3 $\frac{3}{5} = \frac{\dots}{15} = \frac{27}{\dots} = \frac{\dots}{\dots}$

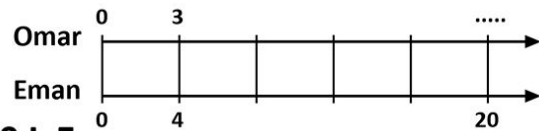
4 In a classroom, if the ratio of the number of boys to the number of girls is 3 to 2, and the total number of pupils in the class is 45, How many girls are in the class?

5 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is :



6 If $\frac{x}{9} = \frac{4}{x}$, then value of x =

7 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



8 The ratio between the perimeter of equilateral triangle and its side length is :

9 A ship covered 360 km in 4 hours, then the speed of the ship is km/hr.

10 The ratio between side length of a square to its perimeter is :



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

12) 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 = :

13) 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.

14) If the ratio of the number of oranges to the number of apples is 3 : 4, How many oranges are there if the number of apples is 16?

15) At a juice shop, 3 kilograms of mangoes were squeezed to provide 9 cups of mango juice. If 6 kilograms of mangoes were squeezed, how many cups can be served? How many kilograms of mangoes are needed to provide 18 cups of juice?

16) In the ratio 9 : 5, the first term is and the second term is

17) If $3 : 7 = x : 28$, then $x - 2 =$

18) $\frac{x}{5} = 5$, then $x =$

19) Complete the table below to make the ratios equivalent:

÷	4	1	×
	42	21	7	



Q1: Choose the correct answer

1 Murad spends 24 pounds in 6 days, then he will spend LE in 10 days.

- (a) 240 (b) 60 (c) 40 (d) 30

2 45 L.E for 5kg of tomatos, then the cost of 20 kg of tomatos is L.E

- (a) 45 (b) 90 (c) 180 (d) 200

3 120 m per min = cm per sec

- (a) 12000 (b) 200 (c) 720 (d) 1200

4 1 day: 24 hours is considered a/an

- (a) unit ratio (b) equivalent ratio (c) conversion factor (d) otherwise

5 180 minutes = hours

- (a) 2 (b) 3 (c) 4 (d) 5

6 360 sec = hour

- (a) 60 (b) 10 (c) 3600 (d) 0.1

7 2.3 pounds = piasters

- (a) 2300 (b) 230 (c) 23 (d) 2.3

8 5,200 dm = km

- (a) 52 (b) 5.2 (c) 0.52 (d) 0.052

9 $4.8 \text{ L} \times \frac{\text{.....}}{\text{.....}} = 4800 \text{ mL}$

- (a) $\frac{100 \text{ mL}}{1 \text{ L}}$ (b) $\frac{1,000 \text{ mL}}{1 \text{ L}}$
 (c) $\frac{1,000 \text{ L}}{1 \text{ mL}}$ (d) $\frac{1 \text{ L}}{1,000 \text{ mL}}$



10) $1 - 1\% = \dots\dots\dots \%$

- (a) zero (b) 2 (c) 99 (d) 1

11) The percentage of 4 squares of 400 squares is $\dots\dots\dots \%$.

- (a) 4 (b) 1 (c) 0.01 (d) 0.1

12) $280 \text{ cm / sec} = \dots\dots\dots \text{ m/min}$

- (a) 140 (b) 168 (c) 280 (d) 28

13) $1 - 75\% = \dots\dots\dots$

- (a) 74% (b) 0.25 (c) 25 (d) 2.5

14) $225\% = \dots\dots\dots$

- (a) $1 \frac{25}{100}$ (b) $2 \frac{25}{200}$ (c) $2 \frac{1}{4}$ (d) 0.225

15) If the percentage of success in a school is 76 %, so the percentage of failures is $\dots\dots \%$

- (a) 24 (b) 44 (c) 67 (d) 90

16) Mazen studies 21 pages in 6 hours, then the unit rate of his study is $\dots\dots$ pages/hour.

- (a) 5 (b) 4 (c) 3.5 (d) 5.5

17) $\dots\dots\dots \text{ gm} = 60 \text{ kg}$

- (a) 0.06 (b) 6,000 (c) 600 (d) 60,000

18) $49\% = \dots\dots\dots$

- (a) $\frac{4.9}{100}$ (b) 49 (c) 0.49 (d) 4900

19) 40% of a number equals $\dots\dots\dots$

- (a) its fourth (b) its four tenths
(c) its four fourths (d) its four sevenths



20 35% of 160 =

a $\frac{56}{100}$

b 56

c 5.6

d 560

21 5% of = 5

a 25

b 50

c 100

d 125

22 45 % of a litre = mL

a 450

b 4500

c 45

d 0.45

23 5% of LE = 120 LE

a 240

b 2400

c 1200

d 120

24 $\frac{3}{6} = \dots\dots\dots \%$

a 30

b 25

c 50

d 60

25 If 100% of a number is 80, what is 50% of this number?

a 0.4

b 4

c 40

d 400

26 Which of the following is a unit rate ?

a 40 LE per 2 kg

b 450 km per 3 hours

c 4 spoons of sugar per 2 cups

d 2 liters per bottle

27 The percentage that represents 20 pounds of 400 pounds is

a 5%

b 10%

c 15%

d 20%

28 30% of = 210

a 400

b 500

c 600

d 700

29 Hoda has 20 oranges, 5 of them are rotten, then the percentage of rotten oranges is

a 5%

b 10%

c 15%

d 25%



Q2: Answer The Following

1 24 cm per second = = meter/minute

2 $\frac{23}{25} = \dots\dots\dots \%$

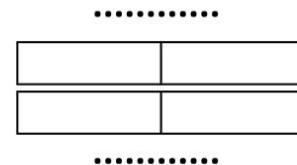
3 A rabbit jumps 3 leaps in 1 meter, then it will jump leaps in 15 meters.

4 A car travels 240 kilometres using 8 liters of gasoline, determine the unit rate with which strategy you prefer?

5 Convert the speed of 500 cm/s to meters per second using the conversion factor?

6 A train is traveling at 0.75 kilometers per minute. What is its speed in kilometers per hour?

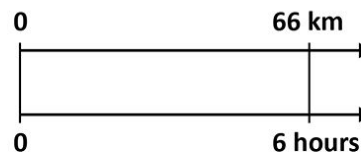
7 Ahmed drove 240 km in 2 hours. Draw a tape diagram to represent the rate.



- a Find the rate of speed at which Ahmed drives.
- b How many kilometers do Ahmed cover when he drive for 7 hours?

8 $2.15 = \dots\dots\dots \%$

9 By using the opposite double number line the unit rate is



- 10 A motorcycle covers 160 km in 4 hours, then the rate of speed is km/hr.
- 11 A factory produces 1,800 cans of soda every 6 hours, then in 15 hours it will produce cans of soda.
- 12 If there are 81 litres of water in 18 bottles, then there litres in 6 bottles
- 13 71,500 cm = km
- 14 If 10% of a number is 36, then the number is
- 15 45 m/min = = km/hr
- 16 Belal scored 570 marks out of 600. Then the percentage of marks scored is
- 17 Mohamed distributed 30 cake pieces among his friends, and this number represents 60% of the total number of cake pieces he had with him. What is the total number of cake pieces Mohamed had?
-
- 18 Determine the best price for buying in each of the following using the unit rate:
- a) 4 games for 200 pounds or 8 games for 320 pounds.
- b) 3 sandwiches for 90 pounds or 5 sandwiches for 125 pounds.
-
- 19 Adam spent 75% of his workout time running. Express the percentage as a fraction and a decimal fraction?
-
- 20 If the height of Hazem is 1.4 meters, calculate his height in centimeters.
-



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3	3	+	4	+	+	10	
1	8	+	7	+	-	8	
8	8	4	-			8	
1	0	7	5	=	6	=	7
+	2	+	+	52			4

$8 \div 14$

$\frac{37}{4} = 11$

$+4 = 0-2$

$2, 1 = 1$

$+\frac{1}{2} = \frac{1}{2} = -1 \frac{1}{2}$

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

$2+1=2$

$5 \frac{1}{2} = \frac{11}{2} = \frac{11}{2}$

$NA = \frac{11}{5} \frac{1}{2}$

$6 \div 2 = 3$

Math Secrets

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Q1: 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 $\frac{4}{5}$



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

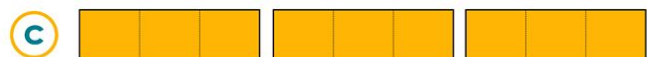
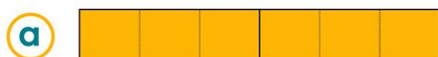
a $\frac{4}{15}$

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

(a) 55

(b) 550

(c) 5,500

(d) 5.5

20) $5 \times \dots\dots\dots = 1$

(a) $\frac{25}{5}$

(b) 1

(c) $\frac{1}{5}$

(d) 0

21) If 6 is a $\frac{1}{4}$ of a number, then the number is

(a) 4

(b) 6

(c) 18

(d) 24

22) If $\frac{1}{8}$ of a number is 40, then the number is

(a) 40

(b) 320

(c) 24

(d) 16

23) To carry out the division operation $6.25 \div 0.025$ we multiply both of the dividend and the divisor by

(a) 10

(b) 100

(c) 1,000

(d) 250

Q2: Answer The Following

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

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

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

159.25 pounds

4) If $10.35 \div 2.3 = 4.5$, then $23 \times 4.5 = \dots\dots\dots$

103.5



5 The number which has no reciprocal is ...**zero**...

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

7 Hana divided 127.5 LE among her three sons. Find the share of each one.

42.5 L.E

8 Shaimaa has 4 liters of juice and wants to divide it into bottles with a capacity of $\frac{2}{3}$ liters. Find the number of bottles needed, using tape diagrams.

6 bottles

9 Answer the following:

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

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

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

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

10 Youssef bought $\frac{9}{10}$ kg of clay and wants to divide it into pieces, where the mass of each piece is $\frac{3}{5}$ kg.

$1\frac{1}{2}$

11 The reciprocal of 9 is ... $\frac{1}{9}$...

12 $\dots\frac{7}{8}\dots \div \frac{5}{7} = \frac{7}{8} \times \dots\frac{7}{5}\dots$

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

a $16.43 \div 31 = \dots\mathbf{0.53}\dots$

b $3.1 \times 0.53 = \dots\mathbf{1.643}\dots$

c $31 \times 5.3 = \dots\mathbf{164.3}\dots$

d $1643 \div 5.3 = \dots\mathbf{310}\dots$

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

5

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



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

a $\frac{4}{5} \div y = \frac{1}{4}$ $\frac{16}{5}$

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

17 $4 \div \frac{3}{5} = \dots\dots\dots$

--	--	--

18 $\dots\dots\dots \div 0.8 = 2.3$

19 $\frac{6}{9}$ of $\frac{9}{6} = \dots\dots\dots$

20 Find the result of multiplying each of the following using the standard algorithm:

a 2.31×0.23 **0.5313**

b 12×3.6 **432**

21 $2 \div 0.25 = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$



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 If 9 to 10 is equivalent to 72 : B, then B =

a 8

b 80

c 7

d 70

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 Jana 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 $a + d = b + c$

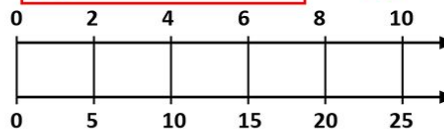
18 The ratio representing the opposite double line number is $\dots\dots\dots$

a 2 : 3

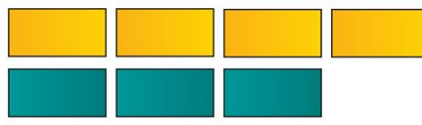
b 3 : 5

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



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



Q2: Answer The Following

1 Haneen uses 5 spoons of butter for every 3 loaves of bread she bakes. Calculate the number of spoons of butter she needs to make 5 loaves of the same type of bread.

15 spoons.

2 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

3 $\frac{3}{5} = \frac{9}{15} = \frac{27}{45} = \frac{30}{50}$

4 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?

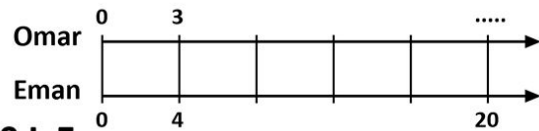
18 girls.

5 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is**3**..... :**2**.....



6 If $\frac{x}{9} = \frac{4}{x}$, then value of x =**6**.....

7 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



8 The ratio between the perimeter of equilateral triangle and its side length is ..**3**..... : ..**1**.....

9 A ship covered 360 km in 4 hours, then the speed of the ship is**90**..... km/hr.

10 The ratio between side length of a square to its perimeter is**1**..... :**4**.....



11) 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.

12) Marwan has 980 LE. He spends 420 LE. Complete:

a) The money that he spends : the total money =³ :⁷

b) The money that he saves : the money that he spends =⁴ :³

13) 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

14) If the ratio of the number of oranges to the number of apples is 3 : 4, How many oranges are there if the number of apples is 16?

12 oranges.

15) At a juice shop, 3 kilograms of mangoes were squeezed to provide 9 cups of mango juice. If 6 kilograms of mangoes were squeezed, how many cups can be served? How many kilograms of mangoes are needed to provide 18 cups of juice?

18 cups.

6 kilograms.

16) In the ratio 9 : 5, the first term is⁹..... and the second term is⁵.....

17) If $3 : 7 = x : 28$, then $x - 2 = \dots\dots\dots^{10}$

18) $\frac{x}{5} = 5$, then $x = \dots\dots\dots^{25}$

19) Complete the table below to make the ratios equivalent:

÷ ⁷ ⁶	4 ³	1	× ⁷
	42 ²⁸	21	7	



Q1: Choose the correct answer

1 Murad spends 24 pounds in 6 days, then he will spend LE in 10 days.

a 240

b 60

c 40

d 30

2 45 L.E for 5kg of tomatos, then the cost of 20 kg of tomatos is L.E

a 45

b 90

c 180

d 200

3 120 m per min = cm per sec

a 12000

b 200

c 720

d 1200

4 1 day: 24 hours is considered a/an

a unit ratio

b equivalent ratio

c conversion factor

d otherwise

5 180 minutes = hours

a 2

b 3

c 4

d 5

6 360 sec = hour

a 60

b 10

c 3600

d 0.1

7 2.3 pounds = piasters

a 2300

b 230

c 23

d 2.3

8 5,200 dm = km

a 52

b 5.2

c 0.52

d 0.052

9 $4.8 \text{ L} \times \frac{\text{.....}}{\text{.....}} = 4800 \text{ mL}$

a $\frac{100 \text{ mL}}{1 \text{ L}}$ b $\frac{1,000 \text{ mL}}{1 \text{ L}}$ c $\frac{1,000 \text{ L}}{1 \text{ mL}}$ d $\frac{1 \text{ L}}{1,000 \text{ mL}}$ 

10) $1 - 1\% = \dots\dots\dots \%$

 a zero b 2 c 99 d 1

11) The percentage of 4 squares of 400 squares is $\dots\dots\dots \%$.

 a 4 b 1 c 0.01 d 0.1

12) $280 \text{ cm / sec} = \dots\dots\dots \text{ m/min}$

 a 140 b 168 c 280 d 28

13) $1 - 75\% = \dots\dots\dots$

 a 74% b 0.25 c 25 d 2.5

14) $225\% = \dots\dots\dots$

 a $1 \frac{25}{100}$ b $2 \frac{25}{200}$ c $2 \frac{1}{4}$ d 0.225

15) If the percentage of success in a school is 76 %, so the percentage of failures is $\dots\dots \%$

 a 24 b 44 c 67 d 90

16) Mazen studies 21 pages in 6 hours, then the unit rate of his study is $\dots\dots$ pages/hour.

 a 5 b 4 c 3.5 d 5.5

17) $\dots\dots\dots \text{ gm} = 60 \text{ kg}$

 a 0.06 b 6,000 c 600 d 60,000

18) $49\% = \dots\dots\dots$

 a $\frac{4.9}{100}$ b 49 c 0.49 d 4900

19) 40% of a number equals $\dots\dots\dots$

 a its fourth b its four tenths c its four fourths d its four sevenths

20 35% of 160 =

a $\frac{56}{100}$

b 56

c 5.6

d 560

21 5% of = 5

a 25

b 50

c 100

d 125

22 45 % of a litre = mL

a 450

b 4500

c 45

d 0.45

23 5% of LE = 120 LE

a 240

b 2400

c 1200

d 120

24 $\frac{3}{6} = \dots\dots\dots \%$

a 30

b 25

c 50

d 60

25 If 100% of a number is 80, what is 50% of this number?

a 0.4

b 4

c 40

d 400

26 Which of the following is a unit rate ?

a 40 LE per 2 kg

b 450 km per 3 hours

c 4 spoons of sugar per 2 cups

d 2 liters per bottle

27 The percentage that represents 20 pounds of 400 pounds is

a 5%

b 10%

c 15%

d 20%

28 30% of = 210

a 400

b 500

c 600

d 700

29 Hoda has 20 oranges, 5 of them are rotten, then the percentage of rotten oranges is

a 5%

b 10%

c 15%

d 25%



Q2: Answer The Following

1 24 cm per second = **14.4 meter/minute.** = meter/minute

2 $\frac{23}{25} = \dots\dots\dots$ % **92**

3 A rabbit jumps 3 leaps in 1 meter, then it will jump **45** leaps in 15 meters.

4 A car travels 240 kilometres using 8 liters of gasoline, determine the unit rate with which strategy you prefer?

30 km per liter.

5 Convert the speed of 500 cm/s to meters per second using the conversion factor?

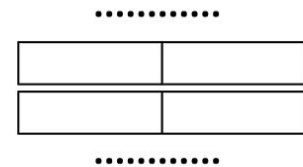
5 m/s

6 A train is traveling at 0.75 kilometers per minute. What is its speed in kilometers per hour?

45 km/hr.

7 Ahmed drove 240 km in 2 hours.

Draw a tape diagram to represent the rate.

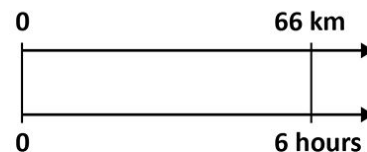


a Find the rate of speed at which Ahmed drives. **120 km/hr.**

b How many kilometers do Ahmed cover when he drive for 7 hours? **840 km.**

8 $2.15 = \dots\dots\dots$ % **215**

9 By using the opposite double number line the unit rate is **11 km/hr**



10 A motorcycle covers 160 km in 4 hours, then the rate of speed is km/hr. **40**

11 A factory produces 1,800 cans of soda every 6 hours, then in 15 hours it will produce cans of soda. **4500**

12 If there are 81 litres of water in 18 bottles, then there litres in 6 bottles. **27**

13 71,500 cm = km **0.715**

14 If 10% of a number is 36, then the number is **360**

15 45 m/min = = km/hr **2.7**

16 Belal scored 570 marks out of 600. Then the percentage of marks scored is **95**

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

50

18 Determine the best price for buying in each of the following using the unit rate:
 a) 4 games for 200 pounds or 8 games for 320 pounds. **8 games for 320 pounds is the better price.**

b) 3 sandwiches for 90 pounds or 5 sandwiches for 125 pounds.

5 sandwiches for 125 pounds is the better price.

19 Adam spent 75% of his workout time running. Express the percentage as a fraction and a decimal fraction?

0.75

20 If the height of Hazem is 1.4 meters, calculate his height in centimeters.

140





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