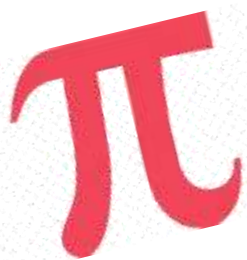


Math

• Prim 6 2nd term

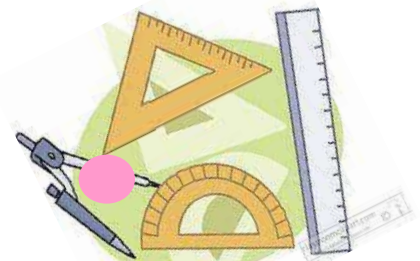


March Revision



Teacher

Eman Samir



Unit 8

Q1 Choose the correct answer :-

1) $\frac{4}{7} \div \dots = 1\frac{1}{2}$

a) $\frac{8}{21}$

b) $\frac{21}{8}$

c) $\frac{6}{7}$

d) $\frac{7}{6}$

2) $\dots \div \frac{3}{8} = \frac{5}{6}$

a) $\frac{18}{40}$

b) $\frac{15}{16}$

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

d) $\frac{5}{16}$

3) $\dots \times \frac{2}{5} = \frac{4}{14}$

a) $\frac{2}{3}$

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

c) $\frac{3}{2}$

d) 3

4) $\dots \times 1\frac{1}{2} = 1$

a) $\frac{2}{3}$

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

c) $\frac{3}{2}$

d) 3

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

a) $\frac{8}{5}$

b) $\frac{3}{5}$

c) $1\frac{2}{3}$

d) 1

6) Half of 22 =

a) 11

b) 22

c) 44

d) 2

7) How many $\frac{1}{6}$ s are there in $\frac{1}{2}$ apple ?

a) 1

b) 12

c) 3

d) $\frac{1}{3}$

8) How many $\frac{3}{4}$ s are there in 6 apple ?

a) 8

b) $\frac{18}{4}$

c) 7

d) $4\frac{1}{2}$

9) $87.29 \div 0.29 = 872.9 \div \dots$

a) 2.9

b) 29

c) 290

d) 0.29

10) $327 \div 24 = 3.27 \div \dots$

a) 2.4

b) 0.24

c) 24

d) 2004

11) If $123 \times 45 = 5535$, then $1.23 \times 4.5 = \dots$

a) 55.35

b) 553.5

c) 5.535

d) 5535

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

a) 0.312

b) 3.12

c) 31.2

d) 312



13) $48 \times 36 = 1728$ then $17.28 \div 3.6 = \dots\dots\dots$

- a) 48 b) 480 c) 0.48 d) 4.8

14) $0.33 \div 0.011 = \dots\dots\dots \div 11$

- a) 33 b) 0.33 c) 330 d) 3300

15) Yara uses $\frac{6}{8}$ cup of flour to make 2 cupcakes , how much flour is used to make 1 cupcake ?

- a)
- $\frac{12}{8}$
- b)
- $\frac{3}{8}$
- c)
- $\frac{2}{8}$
- d)
- $\frac{1}{8}$

16) $\frac{2}{3} \div \frac{1}{3} \dots\dots\dots \frac{1}{2}$

- a) < b) > c) =

17) Any number multiplied by its reciprocal equals

- a) same number b) 0 c) 1 d) double number

Q2 Complete the following :-

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

2) $\frac{4}{3} \div \frac{2}{9} = \dots\dots\dots$ (simplest form)

3) $5 \div \frac{1}{2} = \dots\dots\dots$ (simplest form)

4) $\frac{3}{4} \div 3 = \dots\dots\dots$ (simplest form)

5) $\frac{3}{5} \div \frac{3}{5} = \dots\dots\dots$ (simplest form)

6) $\frac{2}{7} \div \frac{2}{4} = \dots\dots\dots$ (simplest form)

7) $\dots\dots\dots \times 4 = 1$

8) $0.65 \times 0.2 = \dots\dots\dots$

9) $0.676 \times 0.1 = \dots\dots\dots$

10) $2.4 \times 3.6 = \dots\dots\dots$

11) $54.45 \div 0.9 = \dots\dots\dots$

12) $4.8 \div 0.16 = \dots\dots\dots$

13) Fifth of 15 =



- 14) $\frac{2}{3}$ of 27 =
- 15) The number of $\frac{2}{5}$ in 2 is
- 16) $\frac{3}{4} \div m = \frac{3}{8}$, then m =
- 17) $\frac{3}{4} \times m = \frac{3}{8}$, then m =
- 18) $5 \div \frac{2}{3} = 5 \times$

Q3 Answer the following :-

- 1) If you need to buy 1.5 kilograms of apples at a cost of 40.50 pounds per kilogram , how much money would you pay ?
- 2) Maria covered $\frac{2}{3}$ kilometers in 5 min. what is the distance covered in one minute ?
- 3) If the price of one meter of cloth 9.8 , what is the cost of 1.5 meters of cloth ?
- 4) A runner covered $\frac{4}{5}$ kilometer in 2 Laps. How many kilometers did he run in one lap ?
- 5) Soha divided 127.5 L.E. among her three sons. Find the share of each one.

Unit 9

Q1 Choose the correct answer :-

- 1) The ratio between 6:14 in the simplest form is 3:.....
 a) 2 b) 3 c) 11 d) 7
- 2) The ratio between two side lengths of square:.....
 a) 1:4 b) 2:4 c) 1:1 d) 1:2
- 3) To find the simplest form of the ratio 6:12, we divide the two terms by
 a) 2 b) 3 c) 6 d) 1
- 4) If the ratio between apples to oranges is 4 : 7, then ratio between oranges to apples is
- a) 11:7 b) 7:4 c) 7:11 d) 4:7
- 5) The total number of students in a class is 40 and the boys are 15 , then the ratio between girls and boys is
- a) 3:5 b) 5:3 c) 3:8 d) 5:8
- 6) If the ratio between two numbers is 1:3 and the first number is 3 , then the second number is
- a) 9 b) 3 c) 6 d) 12
- 7) If the ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of blue is 24 , then the number of red is
- a) 18 b) 32 c) 44 d) 12
- a) 2:3 b) 2:4 c) 1:4 d) 1:3
- 8) The next ratio of 3:6 , 6,12 , 12:24 ,
- a) 24:48 b) 36:72 c) 24:27 d) 12:24
- 9) If the ratio between a and b is 1 :4 and the sum of a and b is 20 ,then b =
- a) 16 b) 4 c) 5 d) 80
- 10) If the ratio between oranges and bananas is 3 : 4 and the number of bananas is 20, then the difference between them is
- a) 15 b) 1 c) 5 d) 20
- 11) If the ratio between two numbers is 2:5 and the smaller number is 10, then the greater number is
- a) 13 b) 4 c) 7 d) 25

- 25) If $\frac{X}{2^2} = \frac{2}{1}$, then $X + 1 =$
- a) 10 b) 4 c) 8 d) 9
- 26) The simplest form of the ratio 550 to 770 is
- a) 7 to 5 b) $\frac{55}{75}$ c) 55:7 d) 5:7
- 27) The product of extremes The product of means
- a) < b) > c) =
- 28) 30 L.E. for 5 kg , then the cost of 30 kg is
- a) 5 b) 30 c) 180 d) 90

Q2 Complete the following :-

- 1) if the ratio between two numbers is 4 : 3 and the sum of them is 14, then the two numbers are
- 2) The first term in the ratio 4 : 7 is
- 3) The simplest form of the ratio 12 to 20 is
- 4) $\frac{5}{8} = \frac{15}{\dots}$
- 5) $\frac{35}{42} = \frac{\dots}{6}$
- 6) If the ratio between **a** and **b** is 3 : 8 , and **b** is 16 , then a =
- 7) The ratio between two numbers is 4 : 5 and the greater number is 20 , then the smaller number is
- 8) If 4 to 9 is equivalent to $\frac{x}{36}$ then x =
- 9) If **Farida** has 50 pounds and **Malak** has 25 pounds. Find the **ratio** between what **Malak** has and the **total** sum of money in simplest form is
- 10) If the ratio $\frac{7}{8}$ is equivalent to 14 : X , then x - 2
- 11) The next ratio of 1 : 4 , 2 to 8 , $\frac{4}{16}$ is
- 12) If the ratio $\frac{4}{9}$ is equivalent to $\frac{12}{x-1}$, then X =
- 13) A car consumes 20 liters of benzene for 150 km , then its consumes 10 liters of benzene for km
- 14) If $\frac{5}{x} = \frac{15}{12}$, then 2X =
- 15) The ratio between side length of square and its perimeter is:.....
- 16) The ratio between side of equilateral triangle and its perimeter is ...:...
- 17) The ratio between perimeter of rhombus and its side length is:.....



Q3 Answer the following :-

- 1) A car consumed 640 L of gasoline in 4 months , how many liters did the car consume in one month ?
- 2) Seif bought 3 kg of oranges. He paid 36 L.E. How much money does he pay to buy 5 kg ?
- 3) Ahmed bought 3 kg of banana he paid 45 L.E. How much money does he pay to buy 6 kg ?
- 4) A runner covers 8 kilometers in 2 hours. Find the distance he covers in 4 hours at the same speed.
- 5) Find the value of X in each of the following :
 - a) $\frac{X-1}{5} = \frac{20}{25}$
 - b) $\frac{4}{7} = \frac{X+3}{28}$

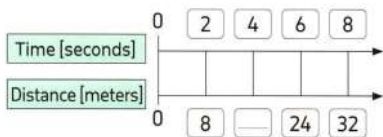
6) From the opposite figure $X + Y = \dots\dots\dots$

3	12	x
5	y	10



7) From the opposite figure , $AC:FC = \dots\dots\dots$

8) Find the missing number in the following :



3	9	—
7	—	28

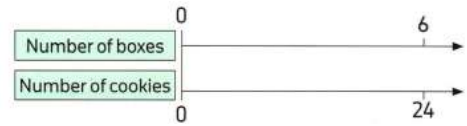
4	—
5	10

9) The opposite table shows the ratio between boys and girls , then :

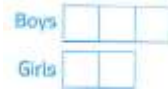
- a) The value of A =
- b) The value of B =
- c) The value of C-B =

Boys	Girls	Total
5	7	A
B	C	48

10) There are 24 cookies in 6 boxes, then find the number of cookies in 3 boxes using double number line .



11) From the opposite tape diagram , if the sum of boys and girls is 35 , then each box equals



Unit 10

Q1 / Choose the correct answer :-

1) Which of the following is not a unit rate ?

- a) 140 L.E.weekly b) 90 km per 60 minutes c) 25 L.E. for each kg d) 2 kg of flour per a cake

2) 30 LE. for 5 kg , then the cost of 30 kg is

- a) 5 b) 30 c) 90 d) 180

3) A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers km per liter.

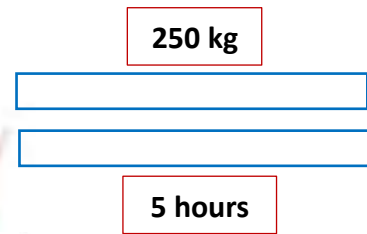
- a) 1 b) 5 c) 10 d) 20

4) The missing numbers in the opposite ratio table are

Kg	1	2	3	4
L.E.	200

- a) 40 , 80 , 120 b) 50 , 100 , 150 c) 45 , 90 , 135 d) 60 , 120 , 180

5) The unit rate of the opposite tape diagram is



- a) 250 km per 5 hours b) 50 km per hour
c) 55 km per hour d) 100 km per 2 hours

6) By using the opposite double number line , the unit rate is



- a) 60 kg per day b) 30 kg per day c) 60 kg per 2 days d) 100 kg per 3 days

7) Which of the following is a conversion factor?

- a) $\frac{3km}{1h}$ b) $\frac{60min}{1sec}$ c) $\frac{7days}{1week}$ d) $\frac{1km}{1000cm}$

8) Which of the following is NOT a conversion factor?

- a) 1 h = 3600 sec b) 12 months : 1 year c) 1000 mm = 1 liter d) $\frac{1min}{60sec}$

9) $\frac{1 \text{ km}}{\dots}$ is a conversion factor ?

- a) 1 hour b) 1000 m c) 100 m d) 10000mm

10) $\frac{60 \text{ km}}{1 \text{ h}} \times \dots = \frac{60000 \text{ m}}{1 \text{ h}}$

- a) $\frac{1 \text{ km}}{1000 \text{ m}}$ b) $\frac{1000 \text{ km}}{1 \text{ m}}$ c) $\frac{1 \text{ m}}{1000 \text{ km}}$ d) $\frac{1000 \text{ m}}{1 \text{ km}}$

11) 120 m per min = cm per sec

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

12) 3.6 L x = 3600 mL

- a) $\frac{1000 \text{ l}}{1 \text{ ml}}$ b) $\frac{100 \text{ ml}}{1 \text{ l}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

13) $2\frac{1}{4}$ day = hours .

- a) 54 b) 48 c) 2400 d) 24

14) 360 sec =h.

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

15) The conversion factor to convert the speed from m per min to km per hr is

- a) $\frac{60 \text{ min}}{1 \text{ h}}$ b) $\frac{1 \text{ km}}{1000 \text{ m}}$ c) $\frac{1 \text{ h}}{60 \text{ min}} \times \frac{1 \text{ km}}{1000 \text{ m}}$ d) $\frac{1 \text{ km}}{1000 \text{ m}} \times \frac{60 \text{ min}}{1 \text{ h}}$

16) 60 meters per hour = meter(s) per min.

- a) 3600 b) 120 c) 360 d) 1

17) $\frac{1 \text{ m}}{\dots}$ is NOT a conversion factor

- a) 100 cm b) 1000 mm c) 0.001 km d) 60 min

18) 4.8 L x = 4800 ml

- a) $\frac{100 \text{ ml}}{1 \text{ L}}$ b) $\frac{1000 \text{ L}}{1 \text{ ml}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

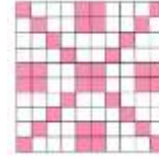
19) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg

- a) $3\frac{3}{4}$ b) 30 c) 90 d) 60

20) $3 : 10 = \dots\dots\dots \%$

- a) 30 b) 12 c) 25 d) 36

21) The opposite shaded area represents each of the following except



- a) 36 b) 0.36 c) 36% d) $\frac{9}{25}$

22) 50% of a number =

- a) the whole number b) half of a number c) third of a number d) quarter of number

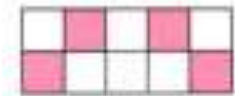
23) Which value is NOT equivalent to 55% ?

- a) $\frac{11}{20}$ b) $\frac{55}{100}$ c) 0.55 d) 0.055

24) $1\frac{1}{4} = \dots\dots\dots \%$

- a) 25 b) 125 c) 75 d) 175

25) The opposite figure ,The percentage of the shaded part to whole =



- a) 0.4 b) 40 c) 4 d) 60

26) $1 - 25\% = \dots\dots\dots$

- a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$ d) $\frac{1}{8}$

27) If the percent of boys in a school is 62% then the percent of girls is ...%

- a) 62 b) 42 c) 48 d) 38

28) Marwan ate 75% of a pizza, so he ate half the pizza.

- a) exactly b) less than c) more than d) otherwise

29) class has 24 students, 50% of them succeeded in the mathematics exam, then the number of students succeeded in the mathematics exam is

- a) 24 b) 12 c) 18 d) 6

30) From the opposite table ,
the value of unknown =

Whole	Part	Percent
Unknown	120	40 %

- a) 30 b) 120 c) 480 d) 300

31) If the price of a watch is 350 L.E. , then 1% of its price is

- a) 3.5 b) 0.35 c) 35 d) 0.035

32) If $\frac{x}{5} = 20\%$, then $x =$

- a) 2 b) 1 c) 4 d) 5

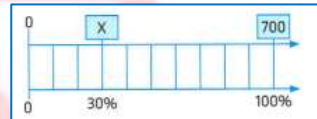
33) 40% of a number = % of half of the same number.

- a) 20 b) 10 c) 80 d) 100

34) If the price of a TV set is 20,000 pounds ,
then 1% of its price = pounds .

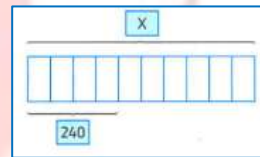
- a) 20 b) 200 c) 400 d) 2000

35) From the opposite double number
line $X =$



- a) 70 b) 210 c) 140 d) 420

36) From the opposite diagram
 $X =$



- a) 600 b) 400 c) 240 d) 2400

37) 25% of 1000 = 50% of

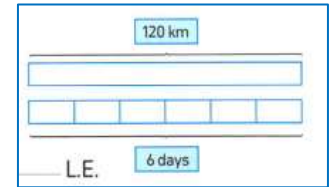
- a) 2000 b) 1500 c) 1250 d) 500

Q2 / Complete the following :-

1) From the opposite double number line , the unit rate is



2) The unit rate from the opposite tape diagram is



3) gm = 30 kg

4) 1,500 kg = gm.

5) 2.5 hr = min.

6) 60 meters per min = meter(s) per sec.

7) 54 L.E. for 9 kg , then the cost of 6 kg is

8) 48 km per hr = meter per min

9) 120 km per hour = meter per min.

10) The percentage is a ratio

11) $36\% + 24\% - 17\% = \dots\dots\dots$

12) $12\% - 4\% = \dots\dots\dots$

13) $1 - (39\% + 0.21) = \dots\dots\dots \%$

14) $1 - \frac{3}{4} = \dots\dots\dots \%$

15) $\frac{7}{3} \times \frac{3}{7} = \dots\dots\dots \%$

16) $15\% - 0.15 = \dots\dots\dots$

17) $225\% - 1\frac{1}{4} = \dots\dots\dots$

18) $0.35 + \frac{9}{20} = \dots\dots\dots \%$

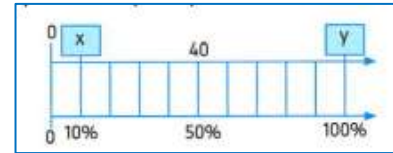
19) $15\% + 0.35 + \frac{1}{2} = \dots\dots\dots \%$

20) $35\% \div \frac{7}{20} = \dots\dots\dots \%$

21) If the ratio 3:4 is equivalent to $\frac{9}{x-1}$ then x =

22) 10 % of 50 kg = kg.

- 23) A store offers a discount 10% off on a shirt of price 300 L.E. ,then the discount = L.E.
- 24) $32\% = 1 - \dots\dots\dots \%$
- 25) If the price of a ball is 120 L.E. then 10% of its price is L.E.
- 26) 25% of 1,000 = 50% of
- 27) From the opposite double number line , the value of $x + y = \dots\dots\dots$
- 28) 15% of 240 kg = kg
- 29) 2 to 5 = %
- 30) % of 600 L.E. = 120 L.E.
- 31) 20% of a number = % of half of the same number.
- 32) 45% of a kilometer = m



Q3 / Answer the following :-

- 1) Which is the longest 1.34 m or 200 cm ?
- 2) Eman covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min ?
- 3) Is (490 pounds per 7 kg of apples) a unit rate or not?
- 4) Two machines produce cloth ,the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better ?
- 5) On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that ? Show your calculations
- 6) Assuming you stored 30 boxes of goods, which is 50% of the boxes, what is the total number of boxes?
- 7) Youssef bought a car for 70,000 pounds , he paid 25% of its price. How much money did he pay ?



- 8) The price of a mobile phone before a discount is 3,000 pounds. if the discount is 10 %, What is its price after the discount ?
- 9) If a man deposited 20,000 pounds in a bank with interest 20% per year. Find the total amount which he gets at the end of one year.
- 10) On the sale a shop offers a discount 20% if the price of an article is 1,600 pounds. Find its price after discount
- 11) A piece of cloth of 10 meters long , was put in water. it shrunk by 4% What is the length after shrinking ?
- 12) 20% of the students in a class are wearing black There are 40 students in the class. How many students are wearing black ?
- 13) 60 Children from school went to a trip and this is 40% of all children in the school. How many all children in the school ?
- 14) Assuming you stored 20 boxes of goods, which is 80% of the boxes, what is the total number of boxes?



- 15) Select 10% and then use it as a reference percentage to find the following percentages: 30% of 900 pounds?
- 16) A shirt that costs 1200 EGP has a 40% discount, calculate the value of the amount saved and the price of the shirt after the discount?

17) Find the value of X

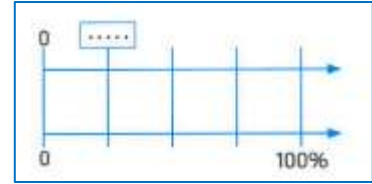
a) $\frac{x}{8} = \frac{10}{20}$

b) $\frac{x+1}{10} = 30\%$

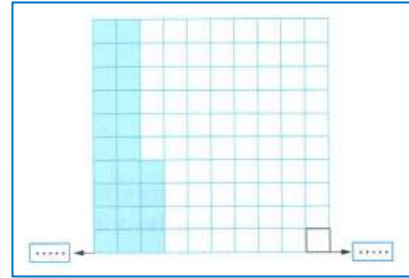
c) $\frac{2}{x+8} = 5\%$

18) Find the value of each of the following by using the given model .

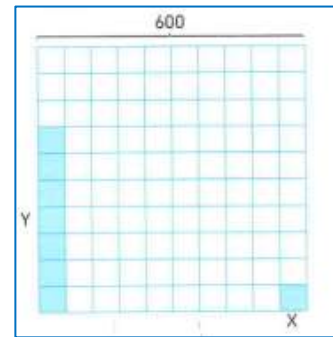
a) 25% of 80



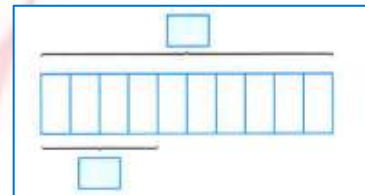
b) 24% of a number is 72



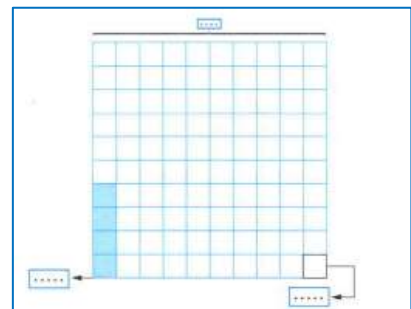
19) From the opposite 10 x 10 grid , Find: X + Y



20) If 40% of a number is 140 find , that number by using the opposite tape diagram .



21) Find the value of 4% of 200 by using the opposite 10 x 10 grid.



22) We ate 5 out of 10 bananas.
What percentage of the bananas did we eat? Determine the part, whole, and percentage of this question:

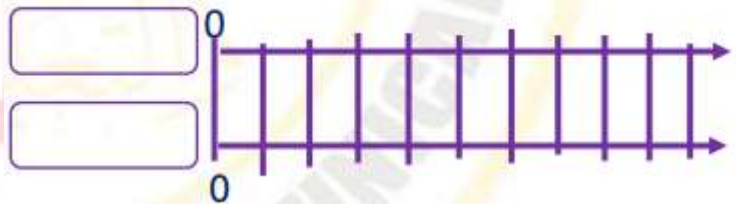
The total	The part	Percentage
.....

23) 300 out of the total number of students in the school have pets, which is 25% of the total number of students in the school, how many students are in the school? From this question, Write the values that represent the part, the whole, and the percentage.

The total	The part	Percentage
.....

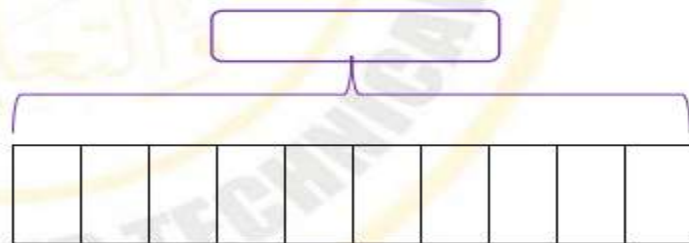
24) Use the double number line to determine the percentage of time Farida spent practicing swimming on Monday.

Walid's exercise schedule	
	Swimming (minutes)
Weekly exercise	70
Exercise on Mondays	21



25) Use the tape diagram to determine the percentage of time Izz spent practicing swimming on Sunday.

Izz's exercise schedule	
	Swimming (minutes)
Weekly exercise	60
Exercise on Sundays	12



Answers

Unit 8

Q1 Choose the correct answer :-

1) $\frac{4}{7} \div \dots = 1\frac{1}{2}$

a) $\frac{8}{21}$

b) $\frac{21}{8}$

c) $\frac{6}{7}$

d) $\frac{7}{6}$

2) $\dots \div \frac{3}{8} = \frac{5}{6}$

a) $\frac{18}{40}$

b) $\frac{15}{16}$

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

d) $\frac{5}{14}$

3) $\dots \times \frac{2}{5} = \frac{4}{14}$

a) $\frac{2}{3}$

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

c) $\frac{3}{2}$

d) 3

4) $\dots \times 1\frac{1}{2} = 1$

a) $\frac{2}{3}$

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

c) $\frac{3}{2}$

d) 3

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

a) $\frac{8}{5}$

b) $\frac{3}{5}$

c) $1\frac{2}{3}$

d) 1

6) Half of 22 =

a) 11

b) 22

c) 44

d) 2

7) How many $\frac{1}{6}$ s are there in $\frac{1}{2}$ apple ?

a) 1

b) 12

c) 3

d) $\frac{1}{3}$

8) How many $\frac{3}{4}$ s are there in 6 apple ?

a) 8

b) $\frac{18}{4}$

c) 7

d) $4\frac{1}{2}$

9) $87.29 \div 0.29 = 872.9 \div \dots$

a) 2.9

b) 29

c) 290

d) 0.29

10) $327 \div 24 = 3.27 \div \dots$

a) 2.4

b) 0.24

c) 24

d) 2004

11) If $123 \times 45 = 5535$, then $1.23 \times 4.5 = \dots$

a) 55.35

b) 553.5

c) 5.535

d) 5535

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

a) 0.312

b) 3.12

c) 31.2

d) 312

13) $48 \times 36 = 1728$ then $17.28 \div 3.6 = \dots\dots\dots$

a) 48

b) 480

c) 0.48

d) 4.8

14) $0.33 \div 0.011 = \dots\dots\dots \div 11$

a) 33

b) 0.33

c) 330

d) 3300

15) Yara uses $\frac{6}{8}$ cup of flour to make 2 cupcakes , how much flour is used to make 1 cupcake ?

a) $\frac{12}{8}$

b) $\frac{3}{8}$

c) $\frac{2}{8}$

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

16) $\frac{2}{3} \div \frac{1}{3} \dots\dots\dots \frac{1}{2}$

a) <

b) >

c) =

17) Any number multiplied by its reciprocal equals

a) same number

b) 0

c) 1

d) double number

Q2 Complete the following :-

1) The reciprocal of $3\frac{3}{4}$ is $\frac{4}{15}$

2) $\frac{4}{3} \div \frac{2}{9} = 6$ (simplest form)

3) $5 \div \frac{1}{2} = 10$ (simplest form)

4) $\frac{3}{4} \div 3 = \frac{1}{4}$ (simplest form)

5) $\frac{3}{5} \div \frac{3}{5} = 1$ (simplest form)

6) $\frac{2}{7} \div \frac{2}{4} = \frac{4}{7}$ (simplest form)

7) $\frac{1}{4} \times 4 = 1$

8) $0.65 \times 0.2 = 0.13$

9) $0.676 \times 0.1 = 0.0676$

10) $2.4 \times 3.6 = 8.64$

11) $54.45 \div 0.9 = 60.6$



- 12) $4.8 \div 0.16 = 30$
- 13) Fifth of 15 = 3
- 14) $\frac{2}{3}$ of 27 = 18
- 15) The number of $\frac{2}{5}$ in 2 is 5
- 16) $\frac{3}{4} \div m = \frac{3}{8}$, then $m = 2$
- 17) $\frac{3}{4} \times m = \frac{3}{8}$, then $m = \frac{1}{2}$
- 18) $5 \div \frac{2}{3} = 5 \times \frac{3}{2}$

Q3 Answer the following :-

- 1) If you need to buy 1.5 kilograms of apples at a cost of 40.50 pounds per kilogram , how much money would you pay ? **60.75 L.E**
- 2) Maria covered $\frac{2}{3}$ kilometers in 5 min. what is the distance covered in one minute ? **$\frac{2}{15}$ K.m**
- 3) If the price of one meter of cloth 9.8 , what is the cost of 1.5 meters of cloth ? **14.7 L.E**
- 4) A runner covered $\frac{4}{5}$ kilometer in 2 Laps. How many kilometers did he run in one lap ? **$\frac{2}{5}$**
- 5) Soha divided 127.5 L.E. among her three sons. Find the share of each one. **42.5 L.E**

Unit 9

Q1 Choose the correct answer :-

- 1) The ratio between 6:14 in the simplest form is 3:.....
 a) 2 b) 3 c) 11 d) 7
- 2) The ratio between two side lengths of square:.....
 a) 1:4 b) 2:4 c) 1:1 d) 1:2
- 3) To find the simplest form of the ratio 6:12, we divide the two terms by
 a) 2 b) 3 c) 6 d) 1
- 4) If the ratio between apples to oranges is 4 : 7, then ratio between oranges to apples is
- a) 11:7 b) 7:4 c) 7:11 d) 4:7
- 5) The total number of students in a class is 40 and the boys are 15 , then the ratio between girls and boys is
- a) 3:5 b) 5:3 c) 3:8 d) 5:8
- 6) If the ratio between two numbers is 1:3 and the first number is 3 , then the second number is
- a) 9 b) 3 c) 6 d) 12
- 7) If the ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of blue is 24 , then the number of red is
- a) 18 b) 32 c) 44 d) 12
- 8) The next ratio of 3:6 , 6,12 , 12:24 ,
- a) 24:48 b) 36:72 c) 24:27 d) 12:24
- 9) If the ratio between a and b is 1 : 4 and the sum of a and b is 20 ,then b =
- a) 16 b) 4 c) 5 d) 80
- 10) If the ratio between oranges and bananas is 3 : 4 and the number of bananas is 20, then the difference between them is
- a) 15 b) 1 c) 5 d) 20
- 11) If the ratio between two numbers is 2:5 and the smaller number is 10, then the greater number is
- a) 13 b) 4 c) 7 d) 25
- 12) If 2:7 is equivalent to X:21 , then X =

- 26) The simplest form of the ratio 550 to 770 is
- a) 7 to 5 b) $\frac{55}{75}$ c) 55:7 d) 5:7
- 27) The product of extremes The product of means
- a) < b) > c) =
- 28) 30 L.E. for 5 kg , then the cost of 30 kg is
- a) 5 b) 30 c) 180 d) 90



Q2 Complete the following :-

- 1) if the ratio between two numbers is 4 : 3 and the sum of them is 14, then the two numbers are 8 and 6
- 2) The first term in the ratio 4 : 7 is 4
- 3) The simplest form of the ratio 12 to 20 is 3 : 5
- 4) $\frac{5}{8} = \frac{15}{24}$
- 5) $\frac{35}{42} = \frac{5}{6}$
- 6) If the ratio between **a** and **b** is 3 : 8 , and **b** is 16 , then **a** = 6
- 7) The ratio between two numbers is 4 : 5 and the greater number is 20 ,then the smaller number is 16
- 8) If 4 to 9 is equivalent to $\frac{x}{36}$ then **x** = 16
- 9) If **Farida** has 50 pounds and **Malak** has 25 pounds , then the **ratio** between what **Malak** has and the **total** sum of money in simplest form is 1 : 3
- 10) If the ratio $\frac{7}{8}$ is equivalent to 14 : **X** , then **x - 2** is 14
- 11) The next ratio of 1 : 4 , 2 to 8 , $\frac{4}{16}$ is 8 : 32
- 12) If the ratio $\frac{4}{9}$ is equivalent to $\frac{12}{x-1}$, then **X** = 28
- 13) A car consumes 20 liters of benzene for 150 km , then its consumes 10 liters of benzene for 75 km
- 14) If $\frac{5}{x} = \frac{15}{12}$, then **2X** = 8
- 15) The ratio between side length of square and its perimeter is 1 : 4
- 16) The ratio between side of equilateral triangle and its perimeter is 1 : 3
- 17) The ratio between perimeter of rhombus and its side length is 1 : 4

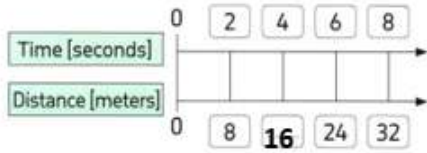


Q3 Answer the following :-

- 1) A car consumed 640 L of gasoline in 4 months , how many liters did the car consume in one month ? **160 liters**
- 2) Seif bought 3 kg of oranges. He paid 36 L.E. How much money does he pay to buy 5 kg ? **60 L.E**
- 3) Ahmed bought 3 kg of banana he paid 45 L.E. How much money does he pay to buy 6 kg ? **90 L.E**
- 4) A runner covers 8 kilometers in 2 hours. Find the distance he covers in 4 hours at the same speed. **16 K.m**
- 5) Find the value of X in each of the following :
- c) $\frac{X-1}{5} = \frac{20}{25}$ **x = 5**
- d) $\frac{4}{7} = \frac{X+3}{28}$ **x = 13**
- 6) From the opposite figure $X + Y = 6 + 20 = 26$
- 7) From the opposite figure , $AC:FC = 2 : 3$
- 8) Find the missing number in the following :

3	12	x
5	y	10





3	9	12
7	21	28

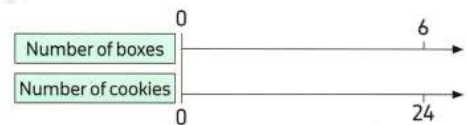
4	8
5	10

9) The opposite table shows the ratio between boys and girls , then :

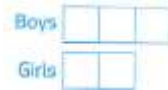
- a) The value of A = 12
- b) The value of B = 20
- c) The value of C - B = 8

Boys	Girls	Total
5	7	A
B	C	48

10) There are 24 cookies in 6 boxes, then find the number of cookies in 3 boxes using double number line . 12 cookies



11) From the opposite tape diagram , if the sum of boys and girls is 35 , then each box equals 5



Unit 10

Q1 / Choose the correct answer :-

1) Which of the following is a unit rate ?

- a) 140 L.E.weekly **b) 90 km per 60 minutes** c) 25 L.E. for each kg d) 2 kg of flour per a cake

2) 30 LE. for 5 kg , then the cost of 30 kg is

- a) 5 b) 30 c) 90 **d) 180**

3) A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers km per liter.

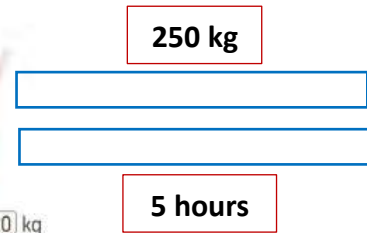
- a) 1 b) 5 **c) 10** d) 20

4) The missing numbers in the opposite ratio table are

Kg	1	2	3	4
L.E.	200

- a) 40 , 80 , 120 **b) 50 , 100 , 150** c) 45 , 90 , 135 d) 60 , 120 , 180

5) The unit rate of the opposite tape diagram is



- a) 250 km per 5 hours **b) 50 km per hour**
 c) 55 km per hour d) 100 km per 2 hours

6) By using the opposite double number line , the unit rate is



- a) 60 kg per day **b) 30 kg per day** c) 60 kg per 2 days d) 100 kg per 3 days

7) Which of the following is a conversion factor?

- a) $\frac{3km}{1h}$ b) $\frac{60min}{1sec}$ **c) $\frac{7days}{1week}$** d) $\frac{1km}{1000cm}$

8) Which of the following is NOT a conversion factor?

- a) 1 h = 3600 sec b) 12 months : 1 year **c) 1000 mm = 1 liter** d) $\frac{1min}{60sec}$

9) $\frac{1 \text{ km}}{\dots}$ is a conversion factor ?

- a) 1 hour b) 1000 m c) 100 m d) 10000mm

10) $\frac{60 \text{ km}}{1 \text{ h}} \times \dots = \frac{60000 \text{ m}}{1 \text{ h}}$

- a) $\frac{1 \text{ km}}{1000 \text{ m}}$ b) $\frac{1000 \text{ km}}{1 \text{ m}}$ c) $\frac{1 \text{ m}}{1000 \text{ km}}$ d) $\frac{1000 \text{ m}}{1 \text{ km}}$

11) 120 m per min = cm per sec

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

12) 3.6 L x = 3600 mL

- a) $\frac{1000 \text{ l}}{1 \text{ ml}}$ b) $\frac{100 \text{ ml}}{1 \text{ l}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

13) $2\frac{1}{4}$ day = hours .

- a) 54 b) 48 c) 2400 d) 24

14) 360 sec =h.

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

15) The conversion factor to convert the speed from m per min to km per hr is

- a) $\frac{60 \text{ min}}{1 \text{ h}}$ b) $\frac{1 \text{ km}}{1000 \text{ m}}$ c) $\frac{1 \text{ h}}{60 \text{ min}} \times \frac{1 \text{ km}}{1000 \text{ m}}$ d) $\frac{1 \text{ km}}{1000 \text{ m}} \times \frac{60 \text{ min}}{1 \text{ h}}$

16) 60 meters per hour = meter(s) per min.

- a) 3600 b) 120 c) 360 d) 1

17) $\frac{1 \text{ m}}{\dots}$ is NOT a conversion factor

- a) 100 cm b) 1000 mm c) 0.001 km d) 60 min

18) 4.8 L x = 4800 ml

- a) $\frac{100 \text{ ml}}{1 \text{ L}}$ b) $\frac{1000 \text{ L}}{1 \text{ ml}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

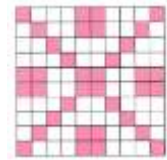
19) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg

- a) $3\frac{3}{4}$ b) 30 c) 90 d) 60

20) $3 : 10 = \dots\dots\dots \%$

- a) 30 b) 12 c) 25 d) 36

21) The opposite shaded area represents each of the following except



- a) 36 b) 0.36 c) 36% d) $\frac{9}{25}$

22) 50% of a number =

- a) the whole number b) half of a number c) third of a number d) quarter of number

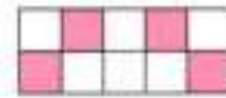
23) Which value is NOT equivalent to 55% ?

- a) $\frac{11}{20}$ b) $\frac{55}{100}$ c) 0.55 d) 0.055

24) $1\frac{1}{4} = \dots\dots\dots \%$

- a) 25 b) 125 c) 75 d) 175

25) The opposite figure ,The percentage of the shaded part to whole =



- a) 0.4 b) 40 c) 4 d) 60

26) $1 - 25\% = \dots\dots\dots$

- a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$ d) $\frac{1}{8}$

27) If the percent of boys in a school is 62% then the percent of girls is ...%

- a) 62 b) 42 c) 48 d) 38

28) Marwan ate 75% of a pizza, so he ate half the pizza.

- a) exactly b) less than c) more than d) otherwise

29) class has 24 students, 50% of them succeeded in the mathematics exam, then the number of students succeeded in the mathematics exam is

- a) 24 b) 12 c) 18 d) 6

30) From the opposite table ,
the value of unknown =

Whole	Part	Percent
Unknown	120	40 %

- a) 30 b) 120 c) 480 **d) 300**

31) If the price of a watch is 350 L.E. , then 1% of its price is

- a) 3.5** b) 0.35 c) 35 d) 0.035

32) If $\frac{x}{5} = 20\%$, then $x =$

- a) 2 **b) 1** c) 4 d) 5

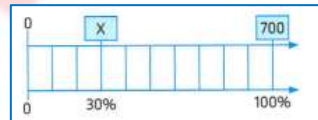
33) 40% of a number = % of half of the same number.

- a) 20 b) 10 **c) 80** d) 100

34) If the price of a TV set is 20,000 pounds ,
then 1% of its price = pounds .

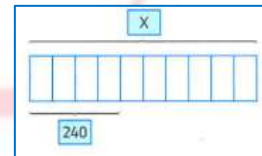
- a) 20 **b) 200** c) 400 d) 2000

35) From the opposite double number
line X =



- a) 70 **b) 210** c) 140 d) 420

36) From the opposite diagram
X =



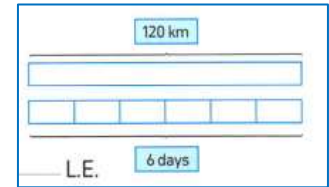
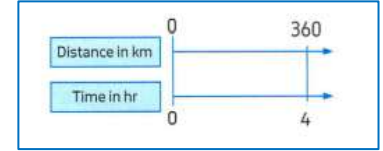
- a) 600** b) 400 c) 240 d) 2400

37) 25% of 1000 = 50% of

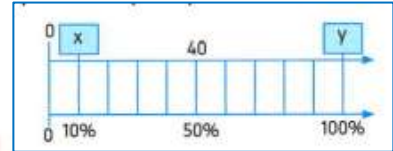
- a) 2000 b) 1500 c) 1250 **d) 500**

Q2 / Complete the following :-

- 1) From the opposite double number line , the unit rate is 90 km per hour
- 2) The unit rate from the opposite tape diagram is 20 km per day
- 3) 30,000 gm = 30 kg
- 4) 1,500 kg = 1,500,000 gm.
- 5) 2.5 hr = 150 min.
- 6) 60 meters per min = 1 meter(s) per sec.
- 7) 54 LE. for 9 kg , then the cost of 6 kg is 36 LE.
- 8) 48 km per hr = 800 meter per min
- 9) 120 km per hour = 2000 meter per min.
- 10) The percentage is a ratio its second term is 100.
- 11) $36\% + 24\% - 17\% = 43\%$
- 12) $12\% - 4\% = 8\%$
- 13) $1 - (39\% + 0.21) = 40\%$
- 14) $1 - \frac{3}{4} = 25\%$
- 15) $\frac{7}{3} \times \frac{3}{7} = 100\%$
- 16) $15\% - 0.15 = 0$
- 17) $225\% - 1\frac{1}{4} = 100\% = 1$
- 18) $0.35 + \frac{9}{20} = 80\%$
- 19) $15\% + 0.35 + \frac{1}{2} = 100\%$
- 20) $35\% \div \frac{7}{20} = 100\%$
- 21) If the ratio 3:4 is equivalent to $\frac{9}{x-1}$ then $x = 13$
- 22) 10 % of 50 kg = 5 kg



- 23) A store offers a discount 10% off on a shirt of price 300 LE. ,then the discount = 30 L.E.
- 24) $32\% = 1 - 68\%$
- 25) If the price of a ball is 120 LE.then 10% of its price is 12 LE.
- 26) 25% of 1,000 = 50% of 500
- 27) From the opposite double number line ,
the value of $x + y = 88$
- 28) 15% of 240 kg = 36 kg
- 29) 2 to 5 = 40 %
- 30) 20 % of 600 L.E. = 120 L.E.
- 31) 20% of a number = 50 % of half of the same number.
- 32) 45% of a kilometer = 450 m



Q3 / Answer the following :-

1) Which is the longest 1.34 m or 200 cm ?

200

2) Eman covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min ?

$\frac{1}{4}$ km

3) Is (490 pounds per 7 kg of apples) a unit rate or not?

Not

4) Two machines produce cloth ,the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better ?

Second is better

5) On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that ? Show your calculations

20 L

6) Assuming you stored 30 boxes of goods, which is 50% of the boxes, what is the total number of boxes?

60 boxes

7) Youssef bought a car for 70,000 pounds , he paid 25% of its price. How much money did he pay ?

17500 LE.

8) The price of a mobile phone before a discount is 3,000 pounds. if the discount is 10 %, What is its price after the discount ?

2700 LE.

- 9) If a man deposited 20,000 pounds in a bank with interest 20% per year. Find the total amount which he gets at the end of one year.

24,000 LE.

- 10) On the sale a shop offers a discount 20% if the price of an article is 1,600 pounds. Find its price after discount.

1,280 LE.

- 11) A piece of cloth of 10 meters long , was put in water. it shrunk by 4% What is the length after shrinking ?

9.6 m

- 12) 20% of the students in a class are wearing black There are 40 students in the class. How many students are wearing black ?

8 students

- 13) 60 Children from school went to a trip and this is 40% of all children in the school. How many all children in the school ?

150 children

- 14) Assuming you stored 20 boxes of goods, which is 80% of the boxes, what is the total number of boxes?

25 boxes

- 15) Select 10% and then use it as a reference percentage to find the following percentages: 30% of 900 pounds?

$$10\% \times 900 = 90$$

$$90 \times 3 = 270 \text{ pounds.}$$

- 16) A shirt that costs 1200 EGP has a 40% discount, calculate the value of the amount saved and the price of the shirt after the discount?

$$\text{Discount (saved money)} = 40\% \times 1200 = 480 \text{ pounds.}$$

$$\text{Price after} = 1200 - 480 = 720 \text{ pounds.}$$

- 17) Find the value of X

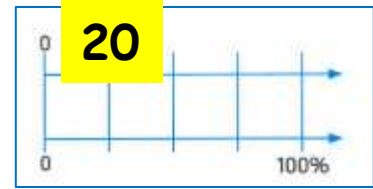
a) $\frac{x}{8} = \frac{10}{20}$
 $x = 4$

b) $\frac{x+1}{10} = 30\%$
 $x = 2$

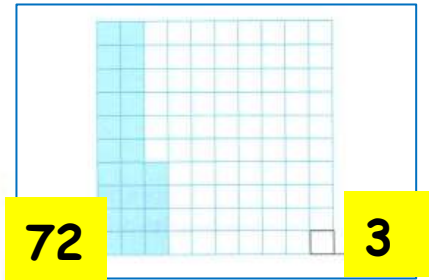
c) $\frac{2}{x+8} = 5\%$
 $x = 32$

18) Find the value of each of the following by using the given model .

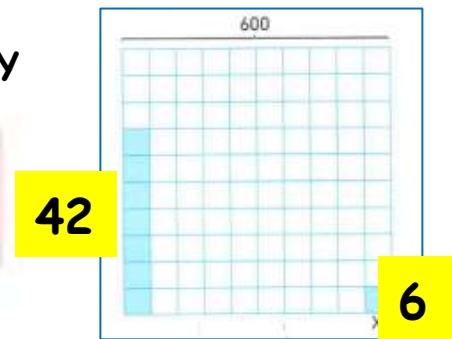
a) 25% of 80 = 20



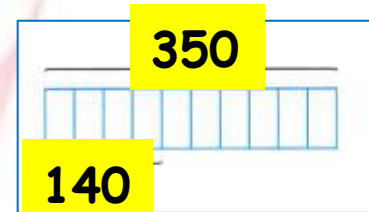
b) 24% of a number is 72 , number = 300



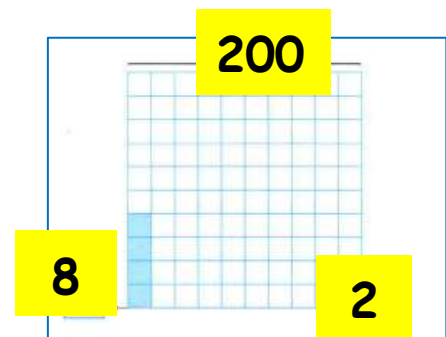
19) From the opposite 10 x 10 grid , Find: X + Y
42 + 6 = 48



20) If 40% of a number is 140 find ,
that number by using the opposite tape
diagram . number is 350



21) Find the value of 4% of 200 by using the
opposite 10 x 10 grid. = 8



22) We ate 5 out of 10 bananas.
What percentage of the bananas did we eat? Determine the part, whole, and percentage of this question.

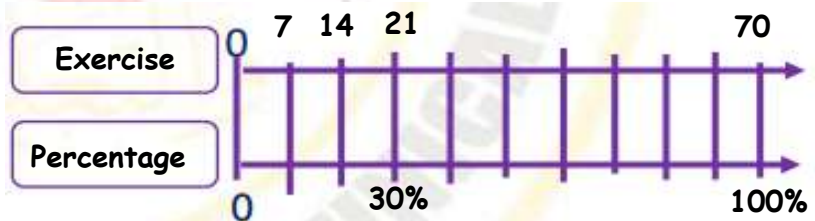
The total	The part	Percentage
10	5	50%

23) 300 out of the total number of students in the school have pets, which is 25% of the total number of students in the school, how many students are in the school? From this question, Write the values that represent the part, the whole, and the percentage.

The total	The part	Percentage
1200	300	25%

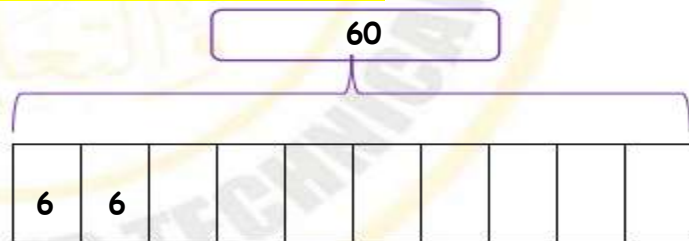
24) Use the double number line to determine the percentage of time Farida spent practicing swimming on Monday. Percentage = 30%

Walid's exercise schedule	
	Swimming (minutes)
Weekly exercise	70
Exercise on Mondays	21



25) Use the tape diagram to determine the percentage of time Izz spent practicing swimming on Sunday. Percentage = 20%

Izz's exercise schedule	
	Swimming (minutes)
Weekly exercise	60
Exercise on Sundays	12



12 out of 60
= 20%

تطبيق



مذكرات جاهزة للطباعة

لتحميل الملفات التعليمية مجاناً للمعلم والطالب

مذكرات وملازم / مراجعات وملخصات / امتحانات / كتب الوزارة /
أدلة المعلم / دفاتر التحضير / سجلات مدرسية / أوراق تأسيس

امسح الكود بموبايلك علشان تقدر تثبت التطبيق

وتقدر ف أي وقت تحمّل ال نفسك فيه ببلاش

هيغنيك عن البحث والجروبات والقنوات الكثيرة

