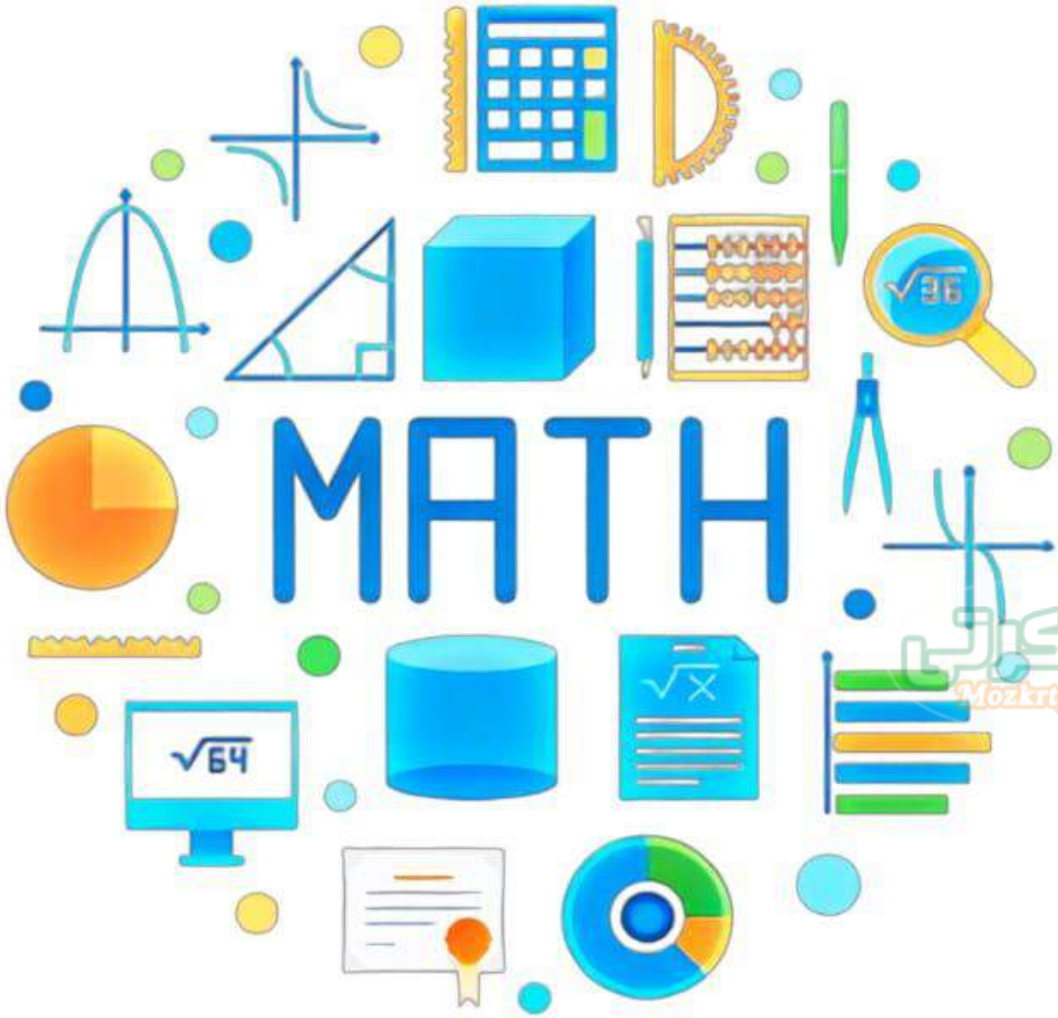
Math primary 6

2024



ENG. ESLAM EMAM

February Revision

1 Choose the correct answer.

(1) The reciprocal of 6 is .....

Ⓐ 1 Ⓑ $\frac{1}{6}$ Ⓒ 6 Ⓓ 0.6

(2) The reciprocal of $\frac{2}{5}$ is .....

Ⓐ $\frac{2}{5}$ Ⓑ 2 Ⓒ $\frac{5}{2}$ Ⓓ 5

(3) The multiplicative inverse of $\frac{1}{5}$ is .....

Ⓐ 1 Ⓑ 5 Ⓒ $\frac{5}{2}$ Ⓓ 15

(4) The reciprocal of $2\frac{1}{3}$ is .....

Ⓐ $\frac{7}{2}$ Ⓑ $\frac{3}{7}$ Ⓒ $\frac{1}{3}$ Ⓓ $\frac{5}{3}$

(5) The reciprocal of 1 is .....

Ⓐ 0 Ⓑ 1 Ⓒ $\frac{1}{2}$ Ⓓ $\frac{1}{3}$

(6) The number ..... is a reciprocal of itself.

Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ $\frac{1}{2}$

(7) The number which has no reciprocal is .....

Ⓐ 3 Ⓑ 2 Ⓒ 1 Ⓓ 0

(8) $4 \div \frac{1}{5} = \cdots$

Ⓐ 4 Ⓑ 5 Ⓒ 20 Ⓓ $\frac{4}{5}$

(9) $\frac{2}{7} \div 2 = \cdots$

Ⓐ 7 Ⓑ 4 Ⓒ $\frac{4}{7}$ Ⓓ $\frac{1}{7}$

(10) $\frac{4}{5} \div 2 = \cdots$

Ⓐ $\frac{8}{5}$ Ⓑ $\frac{2}{5}$ Ⓒ $\frac{7}{5}$ Ⓓ $\frac{1}{5}$

(11) $\frac{3}{4} \div 3 = \cdots$

Ⓐ 1 Ⓑ $\frac{4}{3}$ Ⓒ $\frac{9}{4}$ Ⓓ $\frac{1}{4}$

(12) $5 \div \frac{3}{6} = \cdots$

Ⓐ $\frac{15}{6}$ Ⓑ $\frac{1}{2}$ Ⓒ 10 Ⓓ 15

(13) $5 \div \frac{1}{2} = \cdots$

Ⓐ $\frac{5}{2}$ Ⓑ $\frac{2}{5}$ Ⓒ 10 Ⓓ 1

(14) $\frac{4}{5} \div \frac{1}{2} = \cdots$

Ⓐ $\frac{2}{5}$ Ⓑ $\frac{4}{10}$ Ⓒ $1\frac{4}{5}$ Ⓓ $1\frac{3}{5}$

(15) $\frac{3}{8} \div \frac{3}{4} = \cdots$

Ⓐ $\frac{1}{2}$ Ⓑ $\frac{9}{32}$ Ⓒ 2 Ⓓ $1\frac{1}{8}$

(16) $\frac{2}{7} \div \frac{2}{5} = \cdots$

Ⓐ $\frac{5}{7}$ Ⓑ $\frac{7}{5}$ Ⓒ $\frac{4}{35}$ Ⓓ 1

(17) $\ldots \div \frac{3}{5} = \frac{3}{2}$

Ⓐ $\frac{2}{5}$ Ⓑ $\frac{9}{10}$ Ⓒ $\frac{5}{2}$ Ⓓ $\frac{6}{10}$

(18) $\frac{1}{4} \div \ldots = \frac{1}{2}$

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{1}{2}$ Ⓒ $\frac{4}{2}$ Ⓓ 2

(19) $\frac{4}{7} \div \ldots = 1\frac{1}{2}$

Ⓐ $\frac{8}{21}$ Ⓑ $\frac{21}{8}$ Ⓒ $\frac{6}{7}$ Ⓓ $\frac{7}{6}$

(20) $\frac{1}{6} \div \frac{1}{3} \square \frac{1}{3}$

Ⓐ > Ⓑ < Ⓒ = Ⓓ ≤

(21) 6 ☐ the reciprocal of 6

Ⓐ > Ⓑ < Ⓒ = Ⓓ ≤

(22) $\frac{2}{5}$ ☐ the reciprocal of $\frac{5}{2}$

Ⓐ > Ⓑ < Ⓒ = Ⓓ ≤

(23) Any number multiplied by its reciprocal equals .....

Ⓐ 0 Ⓑ 1 Ⓒ the same number

(24) $\ldots \times \frac{3}{5} = 1$

Ⓐ $\frac{3}{5}$ Ⓑ $1\frac{2}{3}$ Ⓒ 1 Ⓓ $\frac{8}{5}$

(25) $\frac{3}{5} \div \ldots = 1$

Ⓐ $\frac{3}{5}$ Ⓑ $1\frac{2}{3}$ Ⓒ 1 Ⓓ $\frac{8}{5}$

(26) $1\frac{3}{5} \times \ldots = 1$

Ⓐ $\frac{3}{5}$ Ⓑ $1\frac{2}{3}$ Ⓒ 1 Ⓓ $\frac{5}{8}$

(27) $\ldots \times 1\frac{1}{2} = 1$

Ⓐ $\frac{2}{3}$ Ⓑ $\frac{3}{2}$ Ⓒ $2\frac{1}{2}$ Ⓓ 1

(28) How many $\frac{3}{4}$ are there in 6 ?

Ⓐ 8 Ⓑ $\frac{18}{4}$ Ⓒ $4\frac{1}{2}$ Ⓓ 7

(29) How many $\frac{1}{5}$ are there in $\frac{4}{5}$?

Ⓐ $\frac{1}{5}$ Ⓑ $\frac{5}{4}$ Ⓒ 4 Ⓓ 1

(30) Fourth of $12 = \cdots$

Ⓐ 1 Ⓑ 2 Ⓒ 3 Ⓓ 4

(31) half of $20 = \cdots$

Ⓐ 5 Ⓑ 10 Ⓒ 15 Ⓓ 20

(32) Fifth of $15 = \cdots$

Ⓐ 2 Ⓑ 3 Ⓒ 4 Ⓓ 5

(33) Two thirds of $\frac{3}{2} = \cdots$

Ⓐ $\frac{1}{3}$ Ⓑ $\frac{2}{3}$ Ⓒ $\frac{3}{2}$ Ⓓ 1

(34) $\frac{3}{5}$ of $\frac{5}{3} = \cdots$

Ⓐ $\frac{21}{7}$ Ⓑ $\frac{21}{3}$ Ⓒ $\frac{4}{4}$ Ⓓ 2

(35) $\frac{4}{5}$ of $25 = \cdots$

Ⓐ $\frac{4}{5}$ Ⓑ $\frac{5}{4}$ Ⓒ 5 Ⓓ 20

(36) $2.3 \times 4 = \cdots$

Ⓐ 9.2 Ⓑ 92 Ⓒ 8.2 Ⓓ 7.2

(37) $0.56 \times 0.2 = \cdots$

Ⓐ 11.12 Ⓑ 0.112 Ⓒ 11.2 Ⓓ 0.0112

(38) $0.676 \times 0.1 = \cdots$

Ⓐ 67.6 Ⓑ 0.0676 Ⓒ 6.76 Ⓓ 6760

(39) $3.4 \times 6.2 = \cdots$

Ⓐ 2.108 Ⓑ 21.08 Ⓒ 210.8 Ⓓ 2108

(40) If $123 \times 45 = 5535$, then $1.23 \times 4.5 =$ ...

Ⓐ 5.535 Ⓑ 55.35 Ⓒ 553.5 Ⓓ 5535

(41) $1.2 \div 0.4 = \cdots$

Ⓐ 3 Ⓑ 4 Ⓒ 30 Ⓓ 40

(42) $1.2 \div 0.04 = \cdots$

Ⓐ 3 Ⓑ 4 Ⓒ 30 Ⓓ 40

(43) $3.6 \div 0.12 = \cdots$

Ⓐ 30 Ⓑ 3 Ⓒ 0.3 Ⓓ 0.03

(44) $54.45 \div 0.9 = \cdots$

Ⓐ 60.5 Ⓑ 605 Ⓒ 0.605 Ⓓ 6.05

(45) $225 \div 15 = 2.25 \div$ ...

Ⓐ 15 Ⓑ 1.5 Ⓒ 0.15 Ⓓ 150

(46) $327 \div 24 = 3.27 \div$ ...

Ⓐ 2.4 Ⓑ 0.24 Ⓒ 24 Ⓓ 240

(47) $11.22 \div 0.12 = 112.2 \div$ ...

Ⓐ 1.2 Ⓑ 12 Ⓒ 120 Ⓓ 0.12

(48) $0.22 \div 0.011 = \cdots \div 11$

Ⓐ 22 Ⓑ 220 Ⓒ 2200 Ⓓ 0.22

(49) $2.32 \div 0.4 = \cdots \div 4$

Ⓐ 2.32 Ⓑ 23.2 Ⓒ 232 Ⓓ 0.232

(50) If $48 \times 36 = 1728$, then $17.28 \div 3.6 =$ .....

Ⓐ 480 Ⓑ 48 Ⓒ 0.48 Ⓓ 4.8

(51) The first term in the ratio 4 : 7 is .....

Ⓐ 3 Ⓑ 4 Ⓒ 6 Ⓓ 7

(52) The second term in the ratio 4 : 7 is .....

Ⓐ 3 Ⓑ 4 Ⓒ 6 Ⓓ 7

(53) The ratio between 6 :12 in the simplest form is .....

Ⓐ 3 : 4 Ⓑ 2 : 1 Ⓒ 1 : 2 Ⓓ 2 : 11

(54) 18 : 4 = ...

Ⓐ 2 : 9 Ⓑ 4 : 18 Ⓒ 9 : 2 Ⓓ 1 : 4

(55) 25 : 50 = ...

Ⓐ 10 : 4 Ⓑ 2 : 1 Ⓒ 1 : 2 Ⓓ 5 : 1

(56) 200 : 350 = ...

Ⓐ 2 : 3 Ⓑ 4 : 7 Ⓒ 7 : 4 Ⓓ 5 : 7

(57) The ratio between the two numbers is 3 : 5. If the first number is 9 then the second number is .....

Ⓐ 8 Ⓑ 10 Ⓒ 15 Ⓓ 20

(58) The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is .....

Ⓐ 3 : 8 Ⓑ 3 : 5 Ⓒ 5 : 8 Ⓓ 5 : 3

(59) If the ratio between of boys to girls is 4 : 5, then ratio between girls to boys is .....

Ⓐ 4 : 5 Ⓑ 3 : 5 Ⓒ 5 : 9 Ⓓ 5 : 4

(60) If the ratio between of boys to girls is 3 : 5, then the ratio between girls to total number is .....

Ⓐ 3 : 5 Ⓑ 3 : 8 Ⓒ 5 : 8 Ⓓ 5 : 3

(61) If the ratio between boys to girls is 3 : 4, and the number of girls is 24, then the number of boys is .....

Ⓐ 18 Ⓑ 32 Ⓒ 12 Ⓓ 44

(62) If the ratio between boys to girls is 3 : 4, and the number of girls is 24, then the sum of them is .....

Ⓐ 18 Ⓑ 24 Ⓒ 42 Ⓓ 20

(63) If the ratio between boys to girls is 3 : 4, and the number of girls is 24, then the difference between them is .....

Ⓐ 1 Ⓑ 6 Ⓒ 15 Ⓓ 20

(64) Ahmed bought 5 kg of apples for 50 L.E. Then the price of 7 kg of apples = ... L.E.

Ⓐ 50 Ⓑ 60 Ⓒ 70 Ⓓ 80

(65) The ratio between the side length of a square to its perimeter is .....

Ⓐ 4 : 1 Ⓑ 1 : 3 Ⓒ 3 : 1 Ⓓ 1 : 4

(66) The ratio between the perimeter of a square to its side length is .....

Ⓐ 4 : 1 Ⓑ 1 : 3 Ⓒ 3 : 1 Ⓓ 1 : 4

(67) The ratio between two side lengths of square is .....

Ⓐ 1 : 4 Ⓑ 2 : 4 Ⓒ 1 : 2 Ⓓ 1 : 1

(68) he ratio between the side length of an equilateral triangle to its perimeter is .....

Ⓐ 3 : 1 Ⓑ 1 : 3 Ⓒ 4 : 1 Ⓓ 1 : 4

(69) The ratio between the perimeter of an equilateral triangle to its side length is .....

Ⓐ 3 : 1 Ⓑ 1 : 3 Ⓒ 4 : 1 Ⓓ 1 : 4

(70) The next ratio of 2 : 3 , 4 : 6 , 8 : 12 , ...

Ⓐ 12 : 16 Ⓑ 16 : 24 Ⓒ 10 : 14 Ⓓ 12: 20

(71) If 2 : 7 is equivalent to x : 21, then x = ...

Ⓐ 6 Ⓑ 7 Ⓒ 12 Ⓓ 21

(72) If $\frac{4}{7}$ is equivalent to x : 35, then x – 3 = ...

Ⓐ 20 Ⓑ 23 Ⓒ 17 Ⓓ 2

(73) If $\frac{5}{9} = \frac{15}{x}$, then x = ...

Ⓐ 20 Ⓑ 27 Ⓒ 17 Ⓓ 2

(74) If 8 : x = 0.5, then x = ...

Ⓐ 4 Ⓑ 8 Ⓒ 16 Ⓓ 32

(75) If 8 : x = 0.25, then x = ...

Ⓐ 4 Ⓑ 8 Ⓒ 16 Ⓓ 32

(76) If 3 : 5 = 12 : 2x, then x = ...

Ⓐ 20 Ⓑ 24 Ⓒ 12 Ⓓ 10

(77) Which ratio is equal to 3 : 4 = ...

Ⓐ $\frac{5}{6}$ Ⓑ $\frac{15}{20}$ Ⓒ $\frac{10}{20}$ Ⓓ $\frac{6}{10}$

(78) Which of the following ratios in NOT equivalent to $\frac{2}{3}$?

Ⓐ $\frac{4}{6}$ Ⓑ $\frac{10}{15}$ Ⓒ $\frac{14}{21}$ Ⓓ $\frac{12}{16}$

(79) The product of extremes ..... The product of means.

Ⓐ $>$ Ⓑ $<$ Ⓒ $=$ Ⓓ $\neq$

(80) If $\frac{a}{b} = \frac{c}{d}$, then

Ⓐ $a \times b = c \times d$ Ⓑ $a \times c = b \times d$

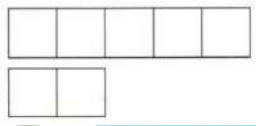
Ⓒ $a \times d = c \times b$ Ⓓ $c \times b = d \times b$

(81) If $\frac{x}{y} = \frac{z}{w}$, then $x \times w =$ .....

Ⓐ $z \times w$ Ⓑ $y \times w$ Ⓒ $z \times y$ Ⓓ $w \times y$

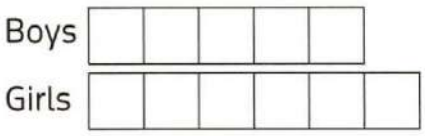
(82) If $\frac{3}{7} = \frac{6}{14}$, then $\ldots \times \ldots = 6 \times 7$

Ⓐ 3×7 Ⓑ 6×14 Ⓒ 3×14 Ⓓ 7×14

(83) The tape diagram  represent the ratio .....

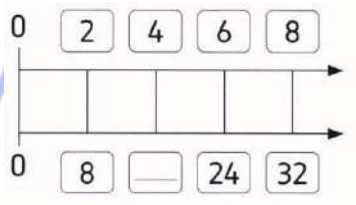
Ⓐ 5 : 2 Ⓑ 3 : 2 Ⓒ 7 : 2 Ⓓ 2 : 5

(84) In the opposite tape diagram. If the number of boys is 20, then the number of girls = ...



Ⓐ 16 Ⓑ 20 Ⓒ 24 Ⓓ 30

(85) The missing number in the following double number line is .....



Ⓐ 8 Ⓑ 12 Ⓒ 16 Ⓓ 18

2 complete

(1) The reciprocal of 9 is .....

(2) The reciprocal of $\frac{1}{2}$ is .....

(3) The multiplicative inverse of $\frac{6}{7}$ is .....

(4) The reciprocal of $1\frac{2}{5}$ is .....

(5) The reciprocal of ..... is $2\frac{1}{4}$

(6) The reciprocal of 1 is .....

(7) The number ..... is a reciprocal of itself.

(8) The number which has no reciprocal is .....

(9) Any number multiplied by its reciprocal equals .....

(10) $7 \div 2 = 7 \times \ldots$

(11) $4 \div \ldots = 4 \times 5$

(12) $\frac{4}{7} \div 8 = \cdots$

(13) $\frac{3}{4} \div 9 = \cdots$

(14) $6 \div \frac{3}{5} = \cdots$

(15) $4 \div \frac{6}{7} = \cdots$

(16) $\frac{2}{9} \div \frac{2}{3} = \cdots$

(17) $\frac{5}{6} \div \frac{5}{9} = \cdots$

(18) $\frac{8}{9} \div \frac{4}{3} = \cdots$

(19) $\ldots \div \frac{1}{2} = \frac{1}{3}$

(20) $\frac{1}{8} \div \ldots = \frac{3}{4}$

(21) $\ldots \times 5 = 1$

(22) $\frac{4}{9} \times \ldots = 1$

(23) $\frac{4}{9} \div \ldots = 1$

(24) How many $\frac{1}{4}$ are there in 2 apples? .....

(25) Fourth of $\frac{1}{8} = \cdots$

(26) half of $\frac{4}{7} = \cdots$

(27) Fifth of $15 = \cdots$

(28) Three quarters of $\frac{4}{3} = \cdots$

(29) $\frac{2}{5}$ of $\frac{5}{2} = \cdots$

(30) $\frac{2}{3}$ of $18 = \cdots$

(31) $3.4 \times 4 = \cdots$

(32) $0.5 \times 0.2 = \cdots$

(33) $0.9 \times 6.2 = \cdots$

(34) $0.25 \times 1.4 = 2.5 \times \ldots$

(35) If $18 \times 22 = 396$, then $1.8 \times 2.2 = \ldots$

(36) $36 \div 0.4 = \cdots$

(37) $36 \div 0.04 = \cdots$

(38) $4.84 \div 0.8 = \cdots$

(39) $223.3 \div 1.1 = \cdots$

(40) $126 \div 12 = 1.26 \div \ldots$

(41) $2.32 \div 0.4 = \cdots \div 4$

(42) The first term in the ratio 9 : 5 is .....

(43) The second term in the ratio 9 : 5 is .....

(44) In the ratio 5 : 7, the first term is ..... and the second term is .....

(45) The ratio between two quantities with different units is called .....

(46) The ratio between 18 : 24 in the simplest form is ..... : .....

(47) The next ratio of 1 : 2 , 2 : 4 , 4 : 8 , ... : .....

(48) 33 : 55 = ... : .....

(49) 28 : 14 = ... : .....

(50) 150 : 250 = ... : .....

(51) $\frac{8}{12} = \frac{16}{....}$

(52) If $\frac{a}{b} = \frac{c}{d}$, then .... × .... = ... × ....

(53) If $\frac{x}{y} = \frac{w}{z}$, then x × .... = w × ....

(54) If $\frac{5}{8} = \frac{20}{32}$, then 5 × 32 = ... × ....

(55) If 3 : 7 is equivalent to 21 : x, then x = ...

(56) If $\frac{3}{5}$ is equivalent to x : 15, then x – 3 = ...

(57) If $\frac{3}{4}$ is equivalent to x : 12, then x^2 = ...

(58) If $\frac{35}{50} = \frac{x+2}{10}$, then x = ... [مستوي عالي]

(59) If the ratio $\frac{1}{2}$ is equivalent to $\frac{12}{x-1}$, then x = ... [مستوي عالي]

(60) If $\frac{x+2}{5} = \frac{8}{10}$, then x = ... [مستوي عالي]

(61) If $\frac{x}{2} = \frac{8}{x}$, then x = ... [مستوي عالي]

(62) If the ratio between two numbers is 7 : 4 and the smaller number is 12 then the greater number is .....

(63) If the ratio between two numbers is 1 : 5 and the sum of them is 36 then the greater number is .....

(64) Ali bought 2 kg of apples for 100 L.E. Then the price of 6 kg of apples = ... L.E.

(65) If the ratio between number of dogs and number of cats is 3 :7. if the number of cats is 21 then the number of dogs is .....

(66) If the ratio between of oranges to bananas is 3 : 5, then ratio between bananas to oranges is .....

(67) If the ratio between of oranges to bananas is 3 : 5 and the number of bananas is 30, then the sum of them is .....

(68) If the ratio between of oranges to bananas is 3 : 5 and the number of bananas is 30, then the difference between them is .....

(69) If the ratio between two numbers is 2 : 5, and the smaller number is 20, then the greater number is .....

(70) If the ratio between two numbers is 2 : 5, and the smaller number is 20, then the total number of them is .....

(71) Ahmed bought 5 kg of apples for 50 L.E. Then the price of 7 kg of apples = ... L.E.

(72) The ratio between the side length of a square to its perimeter is .....

(73) The ratio between the perimeter of a square to its side length is .....

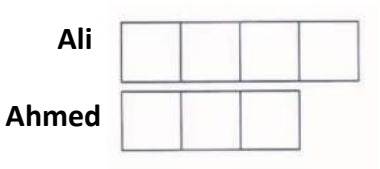
(74) The ratio between two side lengths of square is .....

(75) he ratio between the side length of an equilateral triangle to its perimeter is .....

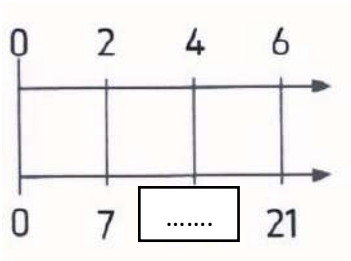
(76) The ratio between the perimeter of an equilateral triangle to its side length is .....

(77) From the opposite tape diagram,

the ratio between Ahmed and Ali .... : .....

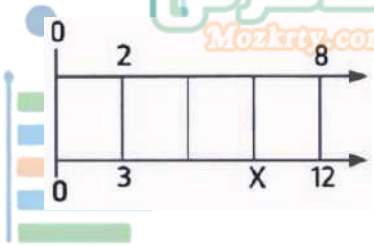


(78) The missing number in the opposite double number line is .....

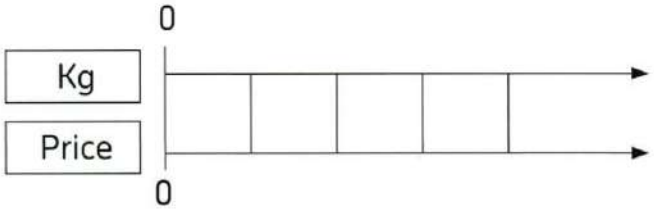


(79) The missing number in the opposite double number line is .....

(80) From the opposite double number line, x = ...



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



3 Answer the following questions.

1) Find the result:

a) $4.2 \div 0.06$

b) 1.2×0.37

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

d) $5 \div \frac{5}{9}$

2) Sameh has 6 liters of milk. He needs to divide it into small bottles of $\frac{3}{4}$ liters each. How many bottles will he need.

.....

.....

3) A runner covers 24 kilometers in 6 hours. Find the distance he covers in 4 hours at the same speed.

.....

.....

4) A box of table tennis balls weighs $\frac{5}{9}$ of a kilogram. If each ball weighs $\frac{15}{81}$ of a kilogram, then how many balls are there in the box?

.....

.....

5) Ali wants to buy 3 shirts that of 25.8 L.E. each. How much will he pay?

.....

.....

6) If the price of one meter of cloth is 9.8 L.E., what is the cost of 1.5 meters of cloth?

.....

.....

7) If Hazem has 40 L.E. and Ahmed has 32 L.E. Find.

a. The ratio between what Hazem has and what Ahmed has.

.....

.....

b. The ratio between what Ahmed has and what Hazem has.

.....

.....

c. The ratio between what Hazem has and the total sum of money.

.....

.....

8) If the ratio between two numbers is 1 : 5 and the sum of them is 36 Find the two numbers.

.....

.....

9) Ahmed bought 3 kg of banana he paid 45 L.E. How much money does he pay to buy 6kg?

.....

.....

10) Show which of the following ratios are equivalent or not?

a. $\frac{8}{14}, \frac{18}{28}$

b. $\frac{36}{18}, \frac{48}{24}$

11) **The opposite table shows the ratio between boys and girls, then.**

Boys	Girls	Total
5	7	A
B	C	48

a. the value of A = ...

b. the value of B = ...

c. The value of C =.....

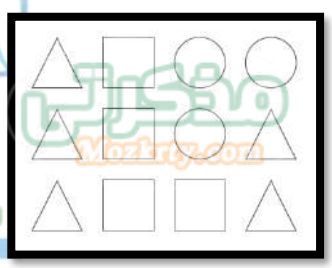
d. The value of A + B = ...

e. The value of C – B = ...

12) **From the following equivalent ratios, A + B = ...**

2	6	B
5	A	25

13) In the following figure,



a) the ratio between the number of circles to the number of triangles is ..... : .....

b) the ratio between the number of triangles to the number of circles is ..... : .....

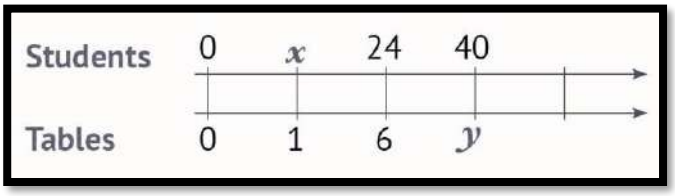
c) The ratio between the number of circles to the number of all shapes is ..... : .....

14) From the following double number line,

find the value of x and y?

x = ...

y = ...



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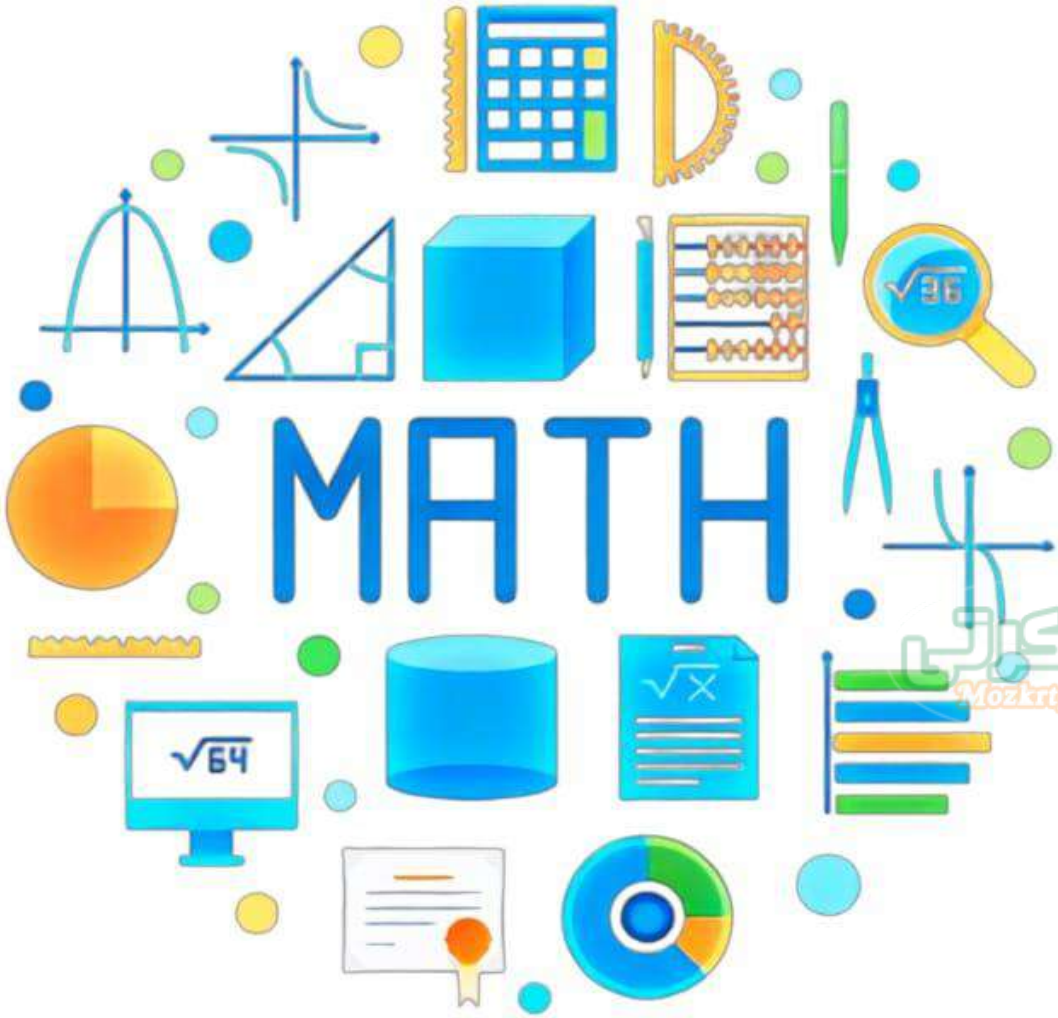


ENG. ESLAM EMAM

February Revision

1 Choose the correct answer.

(1) The reciprocal of 6 is .....

Ⓐ 1 Ⓑ $\frac{1}{6}$ Ⓒ 6 Ⓓ 0.6

(2) The reciprocal of $\frac{2}{5}$ is .....

Ⓐ $\frac{2}{5}$ Ⓑ 2 Ⓒ $\frac{5}{2}$ Ⓓ 5

(3) The multiplicative inverse of $\frac{1}{5}$ is .....

Ⓐ 1 Ⓑ 5 Ⓒ $\frac{5}{2}$ Ⓓ 15

(4) The reciprocal of $2\frac{1}{3}$ is .....

Ⓐ $\frac{7}{2}$ Ⓑ $\frac{3}{7}$ Ⓒ $\frac{1}{3}$ Ⓓ $\frac{5}{3}$

(5) The reciprocal of 1 is .....

Ⓐ 0 Ⓑ 1 Ⓒ $\frac{1}{2}$ Ⓓ $\frac{1}{3}$

(6) The number ..... is a reciprocal of itself.

Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ $\frac{1}{2}$

(7) The number which has no reciprocal is .....

Ⓐ 3 Ⓑ 2 Ⓒ 1 Ⓓ 0

(8) $4 \div \frac{1}{5} = \cdots$

Ⓐ 4 Ⓑ 5 Ⓒ 20 Ⓓ $\frac{4}{5}$

(9) $\frac{2}{7} \div 2 = \cdots$

Ⓐ 7 Ⓑ 4 Ⓒ $\frac{4}{7}$ Ⓓ $\frac{1}{7}$

(10) $\frac{4}{5} \div 2 = \cdots$

Ⓐ $\frac{8}{5}$ Ⓑ $\frac{2}{5}$ Ⓒ $\frac{7}{5}$ Ⓓ $\frac{1}{5}$

(11) $\frac{3}{4} \div 3 = \cdots$

Ⓐ 1 Ⓑ $\frac{4}{3}$ Ⓒ $\frac{9}{4}$ Ⓓ $\frac{1}{4}$

(12) $5 \div \frac{3}{6} = \cdots$

Ⓐ $\frac{15}{6}$ Ⓑ $\frac{1}{2}$ **Ⓒ 10** Ⓓ 15

(13) $5 \div \frac{1}{2} = \cdots$

Ⓐ $\frac{5}{2}$ Ⓑ $\frac{2}{5}$ **Ⓒ 10** Ⓓ 1

(14) $\frac{4}{5} \div \frac{1}{2} = \cdots$

Ⓐ $\frac{2}{5}$ Ⓑ $\frac{4}{10}$ Ⓒ $1\frac{4}{5}$ **Ⓓ $1\frac{3}{5}$**

(15) $\frac{3}{8} \div \frac{3}{4} = \cdots$

Ⓐ $\frac{1}{2}$ Ⓑ $\frac{9}{32}$ Ⓒ 2 Ⓓ $1\frac{1}{8}$

(16) $\frac{2}{7} \div \frac{2}{5} = \cdots$

Ⓐ $\frac{5}{7}$ Ⓑ $\frac{7}{5}$ Ⓒ $\frac{4}{35}$ Ⓓ 1

(17) $\ldots \div \frac{3}{5} = \frac{3}{2}$

Ⓐ $\frac{2}{5}$ **Ⓑ $\frac{9}{10}$** Ⓒ $\frac{5}{2}$ Ⓓ $\frac{6}{10}$

(18) $\frac{1}{4} \div \ldots = \frac{1}{2}$

Ⓐ $\frac{1}{4}$ **Ⓑ $\frac{1}{2}$** Ⓒ $\frac{4}{2}$ Ⓓ 2

(19) $\frac{4}{7} \div \ldots = 1\frac{1}{2}$

Ⓐ $\frac{8}{21}$ Ⓑ $\frac{21}{8}$ Ⓒ $\frac{6}{7}$ Ⓓ $\frac{7}{6}$

(20) $\frac{1}{6} \div \frac{1}{3} \square \frac{1}{3}$

Ⓐ > Ⓑ < Ⓒ = Ⓓ ≤

(21) 6 ☐ the reciprocal of 6

Ⓐ > Ⓑ < Ⓒ = Ⓓ ≤

(22) $\frac{2}{5}$ ☐ the reciprocal of $\frac{5}{2}$

Ⓐ > Ⓑ < **Ⓒ =** Ⓓ ≤

(23) Any number multiplied by its reciprocal equals .....

Ⓐ 0 **Ⓑ 1** Ⓒ the same number

(24) $\ldots \times \frac{3}{5} = 1$

Ⓐ $\frac{3}{5}$ Ⓑ $1\frac{2}{3}$ Ⓒ 1 Ⓓ $\frac{8}{5}$

(25) $\frac{3}{5} \div \ldots = 1$

Ⓐ $\frac{3}{5}$ Ⓑ $1\frac{2}{3}$ Ⓒ 1 Ⓓ $\frac{8}{5}$

(26) $1\frac{3}{5} \times \ldots = 1$

Ⓐ $\frac{3}{5}$ Ⓑ $1\frac{2}{3}$ Ⓒ 1 Ⓓ $\frac{5}{8}$

(27) $\ldots \times 1\frac{1}{2} = 1$

Ⓐ $\frac{2}{3}$ Ⓑ $\frac{3}{2}$ Ⓒ $2\frac{1}{2}$ Ⓓ 1

(28) How many $\frac{3}{4}$ are there in 6 ?

Ⓐ 8 Ⓑ $\frac{18}{4}$ Ⓒ $4\frac{1}{2}$ Ⓓ 7

(29) How many $\frac{1}{5}$ are there in $\frac{4}{5}$?

Ⓐ $\frac{1}{5}$ Ⓑ $\frac{5}{4}$ Ⓒ 4 Ⓓ 1

(30) Fourth of $12 = \cdots$

Ⓐ 1 Ⓑ 2 Ⓒ 3 Ⓓ 4

(31) half of $20 = \cdots$

Ⓐ 5 Ⓑ 10 Ⓒ 15 Ⓓ 20

(32) Fifth of $15 = \cdots$

Ⓐ 2 Ⓑ 3 Ⓒ 4 Ⓓ 5

(33) Two thirds of $\frac{3}{2} = \cdots$

Ⓐ $\frac{1}{3}$ Ⓑ $\frac{2}{3}$ Ⓒ $\frac{3}{2}$ Ⓓ 1

(34) $\frac{3}{5}$ of $\frac{5}{3} = \cdots$

Ⓐ $\frac{21}{7}$ Ⓑ $\frac{21}{3}$ Ⓒ $\frac{4}{4}$ Ⓓ 2

(35) $\frac{4}{5}$ of $25 = \cdots$

Ⓐ $\frac{4}{5}$ Ⓑ $\frac{5}{4}$ Ⓒ 5 Ⓓ 20

(36) $2.3 \times 4 = \cdots$

Ⓐ 9.2 Ⓑ 92 Ⓒ 8.2 Ⓓ 7.2

(37) $0.56 \times 0.2 = \cdots$

Ⓐ 11.12 Ⓑ 0.112 Ⓒ 11.2 Ⓓ 0.0112

(38) $0.676 \times 0.1 = \cdots$

Ⓐ 67.6 Ⓑ 0.0676 Ⓒ 6.76 Ⓓ 6760

(39) $3.4 \times 6.2 = \cdots$

Ⓐ 2.108 Ⓑ 21.08 Ⓒ 210.8 Ⓓ 2108

(40) If $123 \times 45 = 5535$, then $1.23 \times 4.5 =$ ...

Ⓐ 5.535 Ⓑ 55.35 Ⓒ 553.5 Ⓓ 5535

(41) $1.2 \div 0.4 = \cdots$

Ⓐ 3 Ⓑ 4 Ⓒ 30 Ⓓ 40

(42) $1.2 \div 0.04 = \cdots$

Ⓐ 3 Ⓑ 4 Ⓒ 30 Ⓓ 40

(43) $3.6 \div 0.12 = \cdots$

Ⓐ 30 Ⓑ 3 Ⓒ 0.3 Ⓓ 0.03

(44) $54.45 \div 0.9 = \cdots$

Ⓐ 60.5 Ⓑ 605 Ⓒ 0.605 Ⓓ 6.05

(45) $225 \div 15 = 2.25 \div$ ...

Ⓐ 15 Ⓑ 1.5 Ⓒ 0.15 Ⓓ 150

(46) $327 \div 24 = 3.27 \div$ ...

Ⓐ 2.4 Ⓑ 0.24 Ⓒ 24 Ⓓ 240

(47) $11.22 \div 0.12 = 112.2 \div$ ...

Ⓐ 1.2 Ⓑ 12 Ⓒ 120 Ⓓ 0.12

(48) $0.22 \div 0.011 = \cdots \div 11$

Ⓐ 22 Ⓑ 220 Ⓒ 2200 Ⓓ 0.22

(49) $2.32 \div 0.4 = \cdots \div 4$

Ⓐ 2.32 Ⓑ 23.2 Ⓒ 232 Ⓓ 0.232

(50) If $48 \times 36 = 1728$, then $17.28 \div 3.6 =$ .....

Ⓐ 480 Ⓑ 48 Ⓒ 0.48 Ⓓ 4.8

(51) The first term in the ratio 4 : 7 is .....

Ⓐ 3 Ⓑ 4 Ⓒ 6 Ⓓ 7

(52) The second term in the ratio 4 : 7 is .....

Ⓐ 3 Ⓑ 4 Ⓒ 6 Ⓓ 7

(53) The ratio between 6 :12 in the simplest form is .....

Ⓐ 3 : 4 Ⓑ 2 : 1 Ⓒ 1 : 2 Ⓓ 2 : 11

(54) 18 : 4 = ...

Ⓐ 2 : 9 Ⓑ 4 : 18 Ⓒ 9 : 2 Ⓓ 1 : 4

(55) 25 : 50 = ...

Ⓐ 10 : 4 Ⓑ 2 : 1 Ⓒ 1 : 2 Ⓓ 5 : 1

(56) 200 : 350 = ...

Ⓐ 2 : 3 Ⓑ 4 : 7 Ⓒ 7 : 4 Ⓓ 5 : 7

(57) The ratio between the two numbers is 3 : 5. If the first number is 9 then the second number is .....

Ⓐ 8 Ⓑ 10 Ⓒ 15 Ⓓ 20

(58) The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is .....

Ⓐ 3 : 8 Ⓑ 3 : 5 Ⓒ 5 : 8 **Ⓓ 5 : 3**

(59) If the ratio between of boys to girls is 4 : 5, then ratio between girls to boys is .....

Ⓐ 4 : 5 Ⓑ 3 : 5 Ⓒ 5 : 9 **Ⓓ 5 : 4**

(60) If the ratio between of boys to girls is 3 : 5, then the ratio between girls to total number is .....

Ⓐ 3 : 5 Ⓑ 3 : 8 **Ⓒ 5 : 8** Ⓓ 5 : 3

(61) If the ratio between boys to girls is 3 : 4, and the number of girls is 24, then the number of boys is .....

Ⓐ 18 Ⓑ 32 Ⓒ 12 Ⓓ 44

(62) If the ratio between boys to girls is 3 : 4, and the number of girls is 24, then the sum of them is .....

Ⓐ 18 Ⓑ 24 **Ⓒ 42** Ⓓ 20

(63) If the ratio between boys to girls is 3 : 4, and the number of girls is 24, then the difference between them is .....

Ⓐ 1 **Ⓑ 6** Ⓒ 15 Ⓓ 20

(64) Ahmed bought 5 kg of apples for 50 L.E. Then the price of 7 kg of apples = ... L.E.

Ⓐ 50 Ⓑ 60 **Ⓒ 70** Ⓓ 80

(65) The ratio between the side length of a square to its perimeter is .....

Ⓐ 4 : 1 Ⓑ 1 : 3 Ⓒ 3 : 1 **Ⓓ 1 : 4**

(66) The ratio between the perimeter of a square to its side length is .....

Ⓐ 4 : 1 Ⓑ 1 : 3 Ⓒ 3 : 1 Ⓓ 1 : 4

(67) The ratio between two side lengths of square is .....

Ⓐ 1 : 4 Ⓑ 2 : 4 Ⓒ 1 : 2 **Ⓓ 1 : 1**

(68) he ratio between the side length of an equilateral triangle to its perimeter is .....

Ⓐ 3 : 1 **Ⓑ 1 : 3** Ⓒ 4 : 1 Ⓓ 1 : 4

(69) The ratio between the perimeter of an equilateral triangle to its side length is .....

Ⓐ 3 : 1 Ⓑ 1 : 3 Ⓒ 4 : 1 Ⓓ 1 : 4

(70) The next ratio of 2 : 3 , 4 : 6 , 8 : 12 , ...

Ⓐ 12 : 16 **Ⓑ 16 : 24** Ⓒ 10 : 14 Ⓓ 12: 20

(71) If 2 : 7 is equivalent to x : 21, then x = ...

Ⓐ 6 Ⓑ 7 Ⓒ 12 Ⓓ 21

(72) If $\frac{4}{7}$ is equivalent to x : 35, then x – 3 = ...

Ⓐ 20 Ⓑ 23 **Ⓒ 17** Ⓓ 2

(73) If $\frac{5}{9} = \frac{15}{x}$, then x = ...

Ⓐ 20 **Ⓑ 27** Ⓒ 17 Ⓓ 2

(74) If 8 : x = 0.5, then x = ...

Ⓐ 4 Ⓑ 8 **Ⓒ 16** Ⓓ 32

(75) If 8 : x = 0.25, then x = ...

Ⓐ 4 Ⓑ 8 Ⓒ 16 **Ⓓ 32**

(76) If 3 : 5 = 12 : 2x, then x = ...

Ⓐ 20 Ⓑ 24 Ⓒ 12 **Ⓓ 10**

(77) Which ratio is equal to 3 : 4 = ...

Ⓐ $\frac{5}{6}$ **Ⓑ $\frac{15}{20}$** Ⓒ $\frac{10}{20}$ Ⓓ $\frac{6}{10}$

(78) Which of the following ratios in NOT equivalent to $\frac{2}{3}$?

Ⓐ $\frac{4}{6}$ Ⓑ $\frac{10}{15}$ Ⓒ $\frac{14}{21}$ Ⓓ $\frac{12}{16}$

(79) The product of extremes ..... The product of means.

Ⓐ $>$ Ⓑ $<$ Ⓒ $=$ Ⓓ $\neq$

(80) If $\frac{a}{b} = \frac{c}{d}$, then

Ⓐ $a \times b = c \times d$ Ⓑ $a \times c = b \times d$

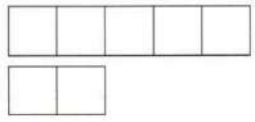
Ⓒ $a \times d = c \times b$ Ⓓ $c \times b = d \times b$

(81) If $\frac{x}{y} = \frac{z}{w}$, then $x \times w =$ .....

Ⓐ $z \times w$ Ⓑ $y \times w$ Ⓒ $z \times y$ Ⓓ $w \times y$

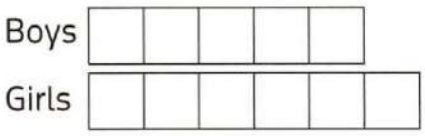
(82) If $\frac{3}{7} = \frac{6}{14}$, then $\ldots \times \ldots = 6 \times 7$

Ⓐ 3×7 Ⓑ 6×14 Ⓒ 3×14 Ⓓ 7×14

(83) The tape diagram  represent the ratio .....

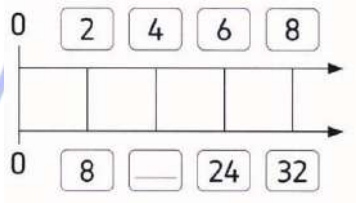
Ⓐ 5 : 2 Ⓑ 3 : 2 Ⓒ 7 : 2 Ⓓ 2 : 5

(84) In the opposite tape diagram. If the number of boys is 20, then the number of girls = ...



Ⓐ 16 Ⓑ 20 Ⓒ 24 Ⓓ 30

(85) The missing number in the following double number line is .....



Ⓐ 8 Ⓑ 12 Ⓒ 16 Ⓓ 18

2 complete

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

(2) The reciprocal of $\frac{1}{2}$ is ..2..

(3) The multiplicative inverse of $\frac{6}{7}$ is ..$\frac{7}{6}$ = $1\frac{1}{6}$..

(4) The reciprocal of $1\frac{2}{5}$ is ..$\frac{5}{7}$..

(5) The reciprocal of ..$\frac{4}{9}$.. is $2\frac{1}{4}$

(6) The reciprocal of 1 is ..1..

(7) The number ..1.. is a reciprocal of itself.

(8) The number which has no reciprocal is ..0..

(9) Any number multiplied by its reciprocal equals ..1..

(10) $7 \div 2 = 7 \times \frac{1}{2}$

(11) $4 \div \frac{1}{5} = 4 \times 5$

(12) $\frac{4}{7} \div 8 = \frac{1}{14}$

(13) $\frac{3}{4} \div 9 = \frac{1}{12}$

(14) $6 \div \frac{3}{5} = 10$

(15) $4 \div \frac{6}{7} = 4\frac{2}{3}$

(16) $\frac{2}{9} \div \frac{2}{3} = \frac{1}{3}$

(17) $\frac{5}{6} \div \frac{5}{9} = 1\frac{1}{2}$

(18) $\frac{8}{9} \div \frac{4}{3} = \frac{2}{3}$

(19) $\frac{1}{6} \div \frac{1}{2} = \frac{1}{3}$

(20) $\frac{1}{8} \div \frac{1}{6} = \frac{3}{4}$

(21) $\frac{1}{5} \times 5 = 1$

(22) $\frac{4}{9} \times \frac{9}{4} = 1$

(23) $\frac{4}{9} \div \frac{4}{9} = 1$

(24) How many $\frac{1}{4}$ are there in 2 apples? ....8.....

(25) Fourth of $\frac{1}{8}$ = $\frac{1}{32}$

(26) half of $\frac{4}{7}$ = ... $\frac{2}{7}$

(27) Fifth of 15 = 3

(28) Three quarters of $\frac{4}{3}$ = 1

(29) $\frac{2}{5}$ of $\frac{5}{2}$ = ... 1

(30) $\frac{2}{3}$ of 18 = ... 12

(31) $3.4 \times 4 =$ 13.6

(32) $0.5 \times 0.2 =$ 0.1

(33) $0.9 \times 6.2 =$ 5.58

(34) $0.25 \times 1.4 = 2.5 \times$ 1.4

(35) If $18 \times 22 = 396$, then $1.8 \times 2.2 =$ 3.96

(36) $36 \div 0.4 =$ 90

(37) $36 \div 0.04 =$ 900

(38) $4.84 \div 0.8 =$ 5.6

(39) $223.3 \div 1.1 =$ 203

(40) $126 \div 12 = 1.26 \div$ 0.12

(41) $2.32 \div 0.4 =$ 23.2 $\div 4$

(42) The first term in the ratio 9 : 5 is ..... 9 .....

(43) The second term in the ratio 9 : 5 is .... 5 .....

(44) In the ratio 5 : 7, the first term is ... 5 ... and the second term is .... 7 ....

(45) The ratio between two quantities with different units is called .. Rate ..

(46) The ratio between 18 : 24 in the simplest form is .. 3 .. : .. 4 ..

(47) The next ratio of 1 : 2 , 2 : 4 , 4 : 8 , .. 8 .. : .. 16 ..

(48) 33 : 55 = .. 3 .. : .. 5 ..

(49) 28 : 14 = .. 2 .. : .. 1 ..

(50) 150 : 250 = .. 3 .. : .. 5 ..

(51) $\frac{8}{12} = \frac{16}{..24..}$

(52) If $\frac{a}{b} = \frac{c}{d}$, then .. a .. × .. d .. = .. c .. × .. b ..

(53) If $\frac{x}{y} = \frac{w}{z}$, then x × .. z .. = w × .. y ..

(54) If $\frac{5}{8} = \frac{20}{32}$, then 5 × 32 = .. 20 .. × .. 8 ..

(55) If 3 : 7 is equivalent to 21 : x, then x = ... 49 .....

(56) If $\frac{3}{5}$ is equivalent to x : 15, then x – 3 = .. 6 ..

(57) If $\frac{3}{4}$ is equivalent to x : 12, then x^2 = .. 81 ..

(58) If $\frac{35}{50} = \frac{x+2}{10}$, then x = .. 5 .. [مستوي عالي]

(59) If the ratio $\frac{1}{2}$ is equivalent to $\frac{12}{x-1}$, then x = ... 25 ..... [مستوي عالي]

(60) If $\frac{x+2}{5} = \frac{8}{10}$, then x = ... 2 ..... [مستوي عالي]

(61) If $\frac{x}{2} = \frac{8}{x}$, then x = ... 4 ..... [مستوي عالي]

(62) If the ratio between two numbers is 7 : 4 and the smaller number is 12 then the greater number is .. 21 ..

(63) If the ratio between two numbers is 1 : 5 and the sum of them is 36 then the greater number is ..30..

(64) Ali bought 2 kg of apples for 100 L.E. Then the price of 6 kg of apples = ..300.. L.E.

(65) If the ratio between number of dogs and number of cats is 3 :7. if the number of cats is 21 then the number of dogs is ..9..

(66) If the ratio between of oranges to bananas is 3 : 5, then ratio between bananas to oranges is ..5:3..

(67) If the ratio between of oranges to bananas is 3 : 5 and the number of bananas is 30, then the sum of them is ..48..

(68) If the ratio between of oranges to bananas is 3 : 5 and the number of bananas is 30, then the difference between them is ..12..

(69) If the ratio between two numbers is 2 : 5, and the smaller number is 20, then the greater number is ..50..

(70) If the ratio between two numbers is 2 : 5, and the smaller number is 20, then the total number of them is ..70

(71) Ahmed bought 5 kg of apples for 50 L.E. Then the price of 7 kg of apples = ..70.. L.E.

(72) The ratio between the side length of a square to its perimeter is ..1:4

(73) The ratio between the perimeter of a square to its side length is ..4:1

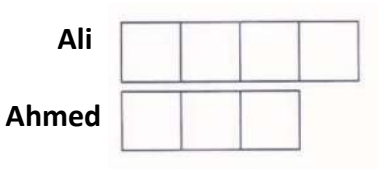
(74) The ratio between two side lengths of square is ..1:1..

(75) he ratio between the side length of an equilateral triangle to its perimeter is ..1:3

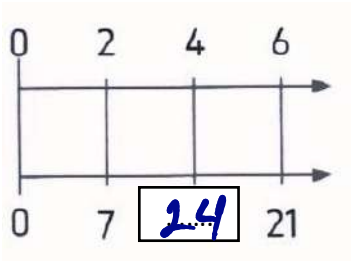
(76) The ratio between the perimeter of an equilateral triangle to its side length is ..3:1..

(77) From the opposite tape diagram,

the ratio between Ahmed and Ali 3 : 4

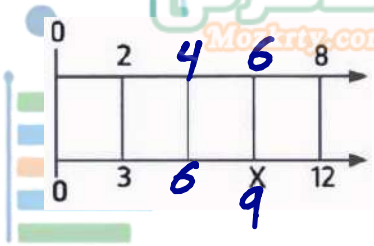


(78) The missing number in the opposite double number line is .....

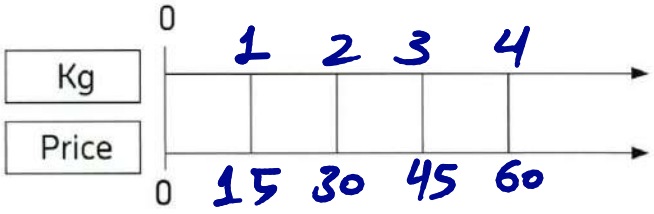


(79) The missing number in the opposite double number line is 16

(80) From the opposite double number line, x = 9



(81) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg is 60 L.E



3 Answer the following questions.

1) Find the result:

a) $4.2 \div 0.06$ = 70

b) 1.2×0.37 = 0.444

c) $\frac{2}{3}$ of $\frac{2}{3}$ = $\frac{4}{9}$

d) $5 \div \frac{5}{9}$ 9

2) Sameh has 6 liters of milk. He needs to divide it into small bottles of $\frac{3}{4}$ liters each. How many bottles will he need.

$6 \div \frac{3}{4} = 6 \times \frac{4}{3} =$ 8 bottles

3) A runner covers 24 kilometers in 6 hours. Find the distance he covers in 4 hours at the same speed.

$24 \div 6 = 4$ km

$4 \times 4 = 16$ km

4) A box of table tennis balls weighs $\frac{5}{9}$ of a kilogram. If each ball weighs $\frac{15}{81}$ of a kilogram, then how many balls are there in the box?

$\frac{5}{9} \div \frac{15}{81} = \frac{1}{\cancel{5}} \times \frac{\cancel{9}^{1}}{\cancel{15}_{3}} = \frac{9}{3} = 3$ balls

5) Ali wants to buy 3 shirts that of 25.8 L.E. each. How much will he pay?

$25.8 \times 3 = 77.4$ L.E.

6) If the price of one meter of cloth is 9.8 L.E., what is the cost of 1.5 meters of cloth?

9.8 x 1.5 = 14.7 L.E.

7) If Hazem has 40 L.E. and Ahmed has 32 L.E. Find.

a. The ratio between what Hazem has and what Ahmed has.

40 : 32 ÷ 8
5 : 4

b. The ratio between what Ahmed has and what Hazem has.

32 : 40 ÷ 8
4 : 5

c. The ratio between what Hazem has and the total sum of money.

40 : 72 ÷ 8
5 : 9

8) If the ratio between two numbers is 1 : 5 and the sum of them is 36 Find the two numbers.

1 : 5 : 6 x6
6 : 30 : 36

9) Ahmed bought 3 kg of banana he paid 45 L.E. How much money does he pay to buy 6kg?

3 : 45 x2 90 L.E.
6 : 90

10) Show which of the following ratios are equivalent or not?

a. $\frac{8}{14}, \frac{18}{28}$ Not equivalent b. $\frac{36}{18}, \frac{48}{24}$ equivalent

11) The opposite table shows the ratio between boys and girls, then.

Boys	Girls	Total
5	7	A
B	C	48

a. the value of A = ..12..

b. the value of B = ..20..

c. The value of C = ..28..

d. The value of A + B = ..12+20=32..

e. The value of C – B = ..28-20=8..

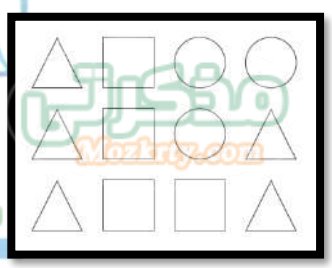
12) From the following equivalent ratios, A + B = ..15+10=25..

2	6	B
5	A	25

A=15

B=10

13) In the following figure,



a) the ratio between the number of circles to the number of triangles is ..3.. : ..5..

b) the ratio between the number of triangles to the number of circles is ..5.. : ..3..

c) The ratio between the number of circles to the number of all shapes is ..3.. : ..12.. ÷3

1 : 4

14) From the following double number line,

find the value of x and y?

x = ..4..

y = ..10..