



# MATH 2024



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**6**  
GRADE

**PREPARED BY  
AHMED NASSR**

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

(c)  $\frac{5}{16}$

(d)  $\frac{4}{5}$

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

(a)  $\frac{1}{6}$

(b) 6

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

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

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

(a) 0.45

(b) 450

(c) 45

(d) 4.5

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

(a)  $\frac{27}{5}$

(b) 15

(c)  $\frac{1}{15}$

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

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

(a) 82.5

(b) 8.25

(c) 0.852

(d) 0.825

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

(a) 120

(b) 12

(c) 1.2

(d) 1200

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

(a) 312

(b) 3.12

(c) 31.2

(d) 0.312

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

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

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

(c)  $\frac{9}{20}$

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

17  $0.55 \div 0.011 = \dots \div 11$

(a) 55

(b) 550

(c) 5,500

(d) 5.5

18  $5.2 \times 0.3 = \dots$

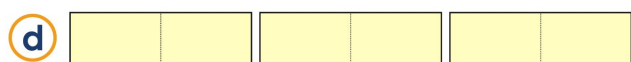
(a) 0.156

(b) 1.56

(c) 15.6

(d) 156

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



20  $5 \times \dots = 1$

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

(b) 1

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

(d) 0

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**Q2: Complete the following:**

1 The reciprocal of 9 is .....

2 .....  $\div \frac{2}{5} = \frac{2}{7}$

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

4  $0.07 \times 0.14 = \dots$

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

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

7  $2 \div 0.25 = \dots \div \dots = \dots$

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

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

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

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

12 .....  $\div 0.8 = 2.3$

13  $1.5 \times \dots = 150$

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

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

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

17 The number which has no reciprocal is .....

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**Q3: Answer the following:**

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

.....

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

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

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

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

.....

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

.....

**5** A rectangle with an area of 26.56 square meters and a length of 8.3 m. Calculate the width of the rectangle.

.....

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

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

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

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

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

**7** Answer the following:

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

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

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

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

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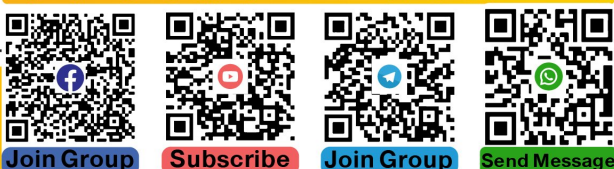


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Q1: Choose the correct answer:

- 1 Sandy spends 120 LE in 4 days, so the rate of what she spends per day is ..... LE/day.  
 a 300       b 25       c 30       d 250
- 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 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
- 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  $77 : 49 = \dots : \dots$   
 a 7 : 11       b 7 : 1       c 11 : 7       d 11 : 1
- 6 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
- 7  $\frac{6}{7}$  is equivalent to .....  
 a  $\frac{7}{6}$        b  $\frac{18}{14}$        c  $\frac{42}{49}$        d  $\frac{35}{30}$
- 8 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
- 9 The ratio between two side lengths of rhombus is .....  
 a 1 : 4       b 1 : 3       c 1 : 2       d 1 : 1
- 10 If the ratio between two numbers is 3 : 5 and the smaller number is 12, then the greater number is .....  
 a 15       b 20       c 36       d 12
- 11 Carpenter needs  $30 \text{ m}^3$  to make 5 tables, then the rate of used wood = .....  $\text{m}^3$  /table.  
 a 6       b 3       c 5       d 150

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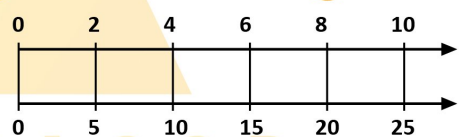

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- 12** If  $4 : x = 12 : 18$ , then  $x = \dots\dots\dots$
- (a) 6                      (b) 9                      (c) 15                      (d) 18
- 13** If  $8 : x = 0.5$ , then  $x = \dots\dots\dots$
- (a) 4                      (b) 8                      (c) 16                      (d) 40
- 14**  $\frac{7}{\dots} = \frac{28}{48}$
- (a) 10                      (b) 12                      (c) 14                      (d) 16
- 15** Sandy reads 140 pages of stories weekly, then she reads  $\dots\dots\dots$  pages daily
- (a) 20                      (b) 7                      (c) 14                      (d) 70
- 16** If  $3 : x - 1 = 4 : 8$ , then  $x = \dots\dots\dots$
- (a) 5                      (b) 7                      (c) 8                      (d) 9
- 17** If  $3 : 5 = 12 : 2x$ , then  $x = \dots\dots\dots$
- (a) 20                      (b) 24                      (c) 12                      (d) 10
- 18**  $\dots\dots\dots$  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)  $\frac{1}{2}, \frac{2}{5}$
- 19** 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)  $a + d = b + c$
- 20** The ratio representing the opposite double line number is  $\dots\dots\dots$
- 
- (a) 2 : 3                      (b) 3 : 5                      (c) 2 : 5                      (d) 2 : 7
- 21** The ratio representing the opposite tape diagram is  $\dots\dots\dots$
- 
- (a) 3 : 4                      (b) 4 : 3                      (c) 7 : 3                      (d) 4 : 7
- 22** If  $x : 15 = 3 : 5$ , then  $x + 4 = \dots\dots\dots$
- (a) 8                      (b) 9                      (c) 5                      (d) 13
- 23** If  $\frac{x + 3}{14} = \frac{1}{2}$ , then  $x = \dots\dots\dots$
- (a) 14                      (b) 7                      (c) 4                      (d) 3

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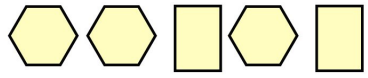
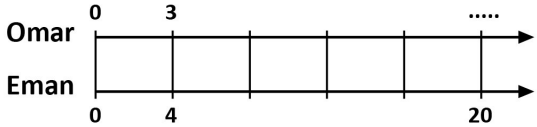


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- 24** The second term in the ratio  $\frac{7}{12}$  is .....
- (a) 0                      (b) 7                      (c) 1                      (d) 12
- 25** An amount of food is distributed between two people in the ratio 3 : 4 then what the first person took = ..... the total.
- (a)  $\frac{3}{4}$                       (b)  $\frac{3}{7}$                       (c)  $\frac{4}{7}$                       (d)  $\frac{4}{3}$
- 26** 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
- 27** 30 L.E for 5 kg, then the cost of 30 kg is ..... L.E
- (a) 5                      (b) 30                      (c) 90                      (d) 180
- 28** To find the simplest form of the ratio 8 : 16, we divide the two terms by .....
- (a) 16                      (b) 8                      (c) 6                      (d) 1
- 29** 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
- 30** 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
- 32** From the opposite equivalent ratios  
A + B = .....
- |   |    |    |
|---|----|----|
| 4 | 36 | B  |
| 9 | A  | 36 |
- (a) 98                      (b) 97                      (c) 96                      (d) 95
- 33** The next ratio of 2 : 5 , 6 : 15 ,18 : 45 , .....
- (a) 54 : 135                      (b) 54 : 90                      (c) 36 : 90                      (d) 54 : 180
- 34** If  $3 : 5 = 12 : 4x$ , then x = .....
- (a) 20                      (b) 24                      (c) 5                      (d) 10
- 35** A worker paints a wall with an area of 36 m<sup>2</sup> in 4 hours, then the rate of painting is ..... m<sup>2</sup>/hr.
- (a) 7                      (b) 8                      (c) 9                      (d) 10



Q2: Complete the following:

- 1 ..... it is a comparison between two quantities that have different units
- 2  $240 : 360 = \dots : \dots$  ( in the simplest form )
- 3 If  $\frac{7}{k}$  equivalent to  $\frac{1}{4}$  , then  $k = \dots$
- 4 Gehan bought 2 kg of apples for 120 L.E, then she paid ..... L.E to buy 4.5 kg
- 5 The ratio between the perimeter of equilateral triangle and its side length is ..... : .....
- 6  $4 : 7 = \dots : 42$
- 7 If  $6 : x = 10 : 32$  , then  $x = \dots$
- 8  $\frac{3}{5} = \frac{\dots}{15} = \frac{27}{\dots} = \frac{\dots}{\dots}$
- 9 If  $3 : 7 = x : 28$ , then  $x - 2 = \dots$
- 10 If  $\frac{x}{9} = \frac{4}{x}$  , then value of  $x = \dots$
- 11  $\frac{x}{5} = 5$ , then  $x = \dots$
- 12  $x + 4 : 12 = 5 : 15$ , then the value of  $x = \dots$
- 13 The ratio between side length of a square to its perimeter is ..... : .....
- 14  $\frac{y}{3}$  and 7 are two equivalent ratios, then  $y = \dots$
- 15 In the ratio 9:5, the first term is ..... and the second term is .....
- 16 A ship covered 360 km in 4 hours, then the speed of the ship is ..... km/hr.
- 17 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is ..... : ..... 
- 18 From the opposite double number line, if the ratio between what Omar saved to what Eman saved was 3 : 4 if Eman saved 20 L.E. then Omar saved ..... L.E 

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**Q3: Answer the following:**

- 1 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 = ..... : .....

---

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

---

- 3 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.  
.....

---

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

---

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

---

- 6 Sandy uploads videos into YouTube, if the video takes 15 minutes:
  - A] How many videos will be uploaded in 375 minutes?
  - B] How long will Sandy take to upload 4 videos to YouTube?
 .....

---

- 7 Complete the following ratio tables:
 

A]	3	.....	15	.....	96
	.....	3	5	9	.....

---

- 8 Which is better to buy:  
8 cans of green beans of 36 LE or 13 cans of green beans of 55.25 LE?  
.....

**NOTE**

where all cans are same kind

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