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Subject: Mathematics

Grade: 6

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End of Term 1 Exam  
Academic Year 2017/2018

Stream: General

**Question 1**

Circle the letter corresponding to the correct answer:

40



1) Find the greatest common factor GCF of 60 and 24.

a) 6

b) 12

c) 4

d) 8

2) Write the ratio of  to  in the figure.

a)  $\frac{6}{3}$

b)  $\frac{5}{9}$

c)  $\frac{4}{9}$

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



3) Hessa and 3 of her friends visited the park and paid AED 36 to buy their tickets.

What is the price of one ticket?

a) 10

b) 13

c) 9

d) 12

4) The rate of 3 hours worked for AED 120 is equivalent to

a) 9 hour worked for AED 180

b) 18 hour worked for AED 180

c) 18 hour worked for AED 60

d) 9 hour worked for AED 360

5) Write  $\frac{1}{20}$  as a decimal.

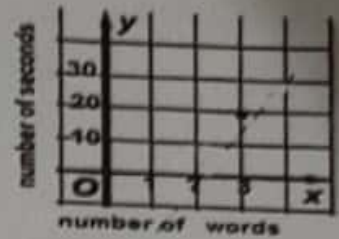
a) 0.5

b) 0.05

c) 0.2

d) 0.02

6) Salem prints words on a computer at the rate shown in the figure. Which of the following statements is correct?



- a) He prints 10 words per minute      b) He prints 9 words per minute
- c) He prints 6 words per minute      d) He prints 8 words per minute

7) 65% of students in grade 6 choose going on a trip as activity, while the remaining students choose reading. Find the rate of students who choose reading as a simple fraction.

- a)  $\frac{25}{7}$       b)  $\frac{7}{25}$       c)  $\frac{20}{7}$       d)  $\frac{7}{20}$

8) which of the following represents 1.75% ?

- a) 0.175      b)  $\frac{7}{4}$       c) 17.5      d)  $\frac{175}{1000}$

9) Order 0.005,  $\frac{2}{3}$ , 0.25 from the least to the biggest.

- a) 0.005, 0.25,  $\frac{2}{3}$       b) 0.25, 0.005,  $\frac{2}{3}$       c) 0.005,  $\frac{2}{3}$ , 0.25      d)  $\frac{2}{3}$ , 0.005, 0.25

10) Write 18% as a decimal.

- a) 1.8      b) .018      c) 18.0      d) 0.18

11) Write  $4\frac{1}{5}$  as a percentage.

a) 20%

b) 21%

c) 420%

d) 4%

12) 60 is 15% of which number?

a) 6

b) 400

c) 40

d) 4000

13) What is value of the product  $1.12 \times 0.05$ ?

a) 0.560

b) 0.0056

c) 0.0560

d) 5.60

14) What is the best operation to estimate the value of  $12.19 \div 3.7$ ?

a)  $10 \div 4$

b)  $10 \div 3$

c)  $11 \div 3$

d)  $12 \div 4$

15) Knowing that  $4.5 \div 9 = 0.5$ , which of the following is correct?

a)  $0.45 \div 9 = 0.05$

b)  $0.45 \div 9 = 0.005$

c)  $0.045 \div 9 = 0.05$

d)  $0.45 \div 9 = 0.5$

16) What is the best estimate in square centimeters of the area of the card shown on the side?



$17\frac{1}{9}$  cm

$19\frac{7}{8}$  cm

- a)  $17 \times 19$       b)  $18 \times 19$       c)  $18 \times 20$       d)  $17 \times 20$

17)  $\frac{4}{6} \times 18$  is equal to

- a)  $\frac{2}{3} \times 9$       b)  $\frac{6}{4} \times 18$       c)  $\frac{4}{1} \times 3$       d)  $\frac{4}{1} \times 9$

18) The mixed number  $2\frac{9}{10}$  is equal to

- a)  $\frac{10}{9}$       b)  $\frac{29}{10}$       c)  $\frac{10}{29}$       d)  $\frac{9}{10}$

19) If two fractions between 0 and 1 are multiplied, the result will be

- a) Greater than 1      b) Equal to 0      c) Less than 1      d) Equal to 1

20) The missing number in:  $\frac{7}{8} > \square$  may be

- a)  $\frac{8}{9}$       b)  $\frac{7}{10}$       c)  $\frac{10}{7}$       d)  $\frac{9}{8}$

**Question 2**

Show all the details in all your answers:

60

21) Fares cleans the garden every 2 days and cuts the grass every 5 days.

If Fares did both things today, after how many days would he do both of them again?

multiples of 2 → 2, 4, 6, 8, 10, ...

multiples of 5 → 5, 10, 15, ...

L.C.M = 10



22) Sara makes dolls at a cost of AED 100 for 8 dolls.

Complete the ratio table below to find the cost of 36 dolls of the same kind.

Number of dolls	8	4 ?	36
Cost in AED	100	50 ?	450 ?



23) A bike is on sale for 9% off. Estimate the price of the

bike while on sale.  $397 \rightarrow 400$ ,  $9\% \rightarrow 10\%$ .

$$\frac{10}{100} \times 400 = 40$$

$$397 - 40 = 357$$



24) Find the missing numbers in the following division.

$$\begin{array}{r}
 4 \boxed{9} \\
 \hline
 26 \overline{) 1274} \\
 \underline{-10 \boxed{4}} \\
 0 \boxed{2} 34 \\
 \underline{-2 \boxed{3} 4} \\
 \hline
 000
 \end{array}$$

25) Nour needs  $\frac{2}{3}$  cups of flower to make one pie. What is the greatest number of pies she will be able to make with  $5\frac{1}{3}$  cups of flower ?

$$5\frac{1}{3} \div \frac{2}{3} = \frac{16}{3} \div \frac{2}{3} = \frac{16}{3} \times \frac{3}{2} = 8$$



The table below shows the distances which 3 students walk during break time. Answer questions (26, 27, 28).

Student	Distance (m)	Time (min)
Saif	300	6
Khalifa	450	5
Omar	700	10

26) What is the distance Khalifa walks if he walks 15 minutes at the same rate?

$$450 \times 3 = 1350 \text{ m}$$

27) How long does Omar take to walk 350m if he walks at the same rate?

$$700 \div 2 = 350, 10 \div 2 = 5 \text{ minutes}$$

28) Who is the fastest student? Justify your answer.

Saif  $\rightarrow 300 \div 6 = 50 \text{ m/min}$   
 Khalifa  $\rightarrow 450 \div 5 = 90 \text{ m/min}$  ← Khalifa  
 Omar  $\rightarrow 700 \div 10 = 70 \text{ m/min}$

29) Evaluate the following quantities:

$$8 - 1.93 = 6.07$$

$$0.04 \times 0.32 = 0.0128$$

$$4\frac{2}{3} \div 2\frac{2}{9} = \frac{14}{3} \div \frac{20}{9} = \frac{14}{3} \times \frac{9}{20} = \frac{21}{10} = 2\frac{1}{10}$$

$$\frac{4}{9} \times \frac{3}{16} = \frac{12}{144} = \frac{1}{12}$$

In the table below, Yasser records the types of juice that students prefer at lunch.  
Answer questions 30 and 31.

Juice	Number of Students
Berry	3
Orange	6
Banana	8
Apple	7



30) Write the ratio of students who prefer banana juice to the total number of students in its simplest form, then explain its meaning.

$$\frac{8}{24} = \frac{1}{3}$$

31) Write the percentage of students who prefer orange juice.

$$\frac{6}{24} = \frac{1}{4} = 0.25, 25\%$$

End of Exam

Good Luck