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End of Term 1 Exam
Academic Year: 2017/2018
Grade: 7
Subject: **Mathematics**

امتحان الفصل الدراسي الأول
العام الدراسي: 2018/2017
الصف: السابع
المادة: الرياضيات

اسم الطالب: _____
المدرسة: _____
الرقم في البرنامج: _____
الشعبة: _____



This table is to be filled by markers.

يُملأ هذا الجدول بدقة تامة من قبل لجنة التقدير.

رقم السؤال Question No.	الدرجة Mark		المقَدِّر 1 Marker 1	المقَدِّر 2 Marker 2	المراجع Reviser
	رقمياً In Figures	كتابية In Words	التوقيع Sign	التوقيع Sign	التوقيع Sign
1					
2					

الدرجة Mark	رقمياً In Figures	كتابية In Words	المراجع العام Moderator		
الدرجة المستحقة Allotted Mark			الاسم Name		التوقيع Sign
الدرجة الكلية Full Mark	100	One Hundred			



Subject: Mathematics

Grade: 7

Number of Pages: (7)

End of Term 1 Exam
Academic Year 2017/2018

Stream: General

Question 1*

Circle the letter corresponding to the correct answer:

40

1) Hamad writes 144 words in 3 minutes. Find the unit rate at which he writes words per minute.

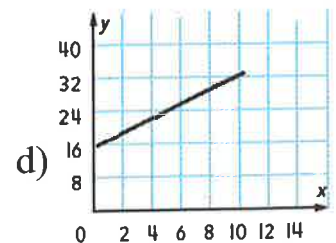
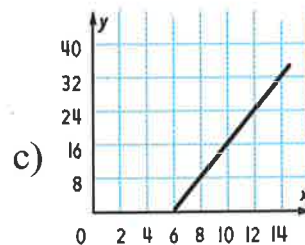
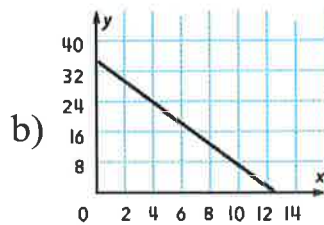
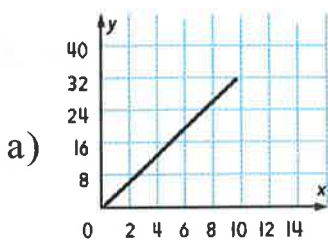
- a) 450 b) 50 c) 48 d) 15



2) Simplify $\frac{1}{3} \div \frac{2}{3}$ to its simplest form.

- a) $\frac{2}{3}$ b) $\frac{3}{2}$ c) $\frac{6}{1}$ d) $\frac{1}{6}$

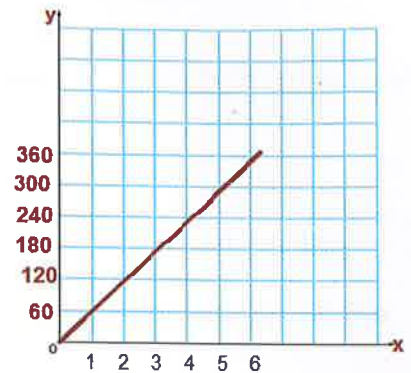
3) Which of the following graphs represents a proportional relationship?



4) Solve $\frac{7}{3} = \frac{n}{21}$.

- a) $n = \frac{7 \times 3}{21}$ b) $n = \frac{7 \times 21}{3}$ c) $n = \frac{3 \times 21}{7}$ d) $n = \frac{7}{21 \times 3}$

5) What is the slope of the line shown in the graph?



- a) 15 b) 120 c) 30 d) 60

6) Which equation represents a direct variation?

- a) $y = 6x$ b) $x = 4y$ c) $y = 3x + 1$ d) $x = y + 1$

7) What is 30% of 140?

- a) $\frac{30}{100} \div 140$ b) $\frac{30}{100} - 140$ c) $\frac{30}{100} \times 140$ d) $\frac{30}{100} + 140$

8) What is the best estimate of 195% of 200?

- a) 300 b) 220 c) 400 d) 340

9) During sale, a bag was sold with 15% discount from its original price. If the discount was AED 60, what is the equation indicating the original price x of the bag?



- a) $\frac{15}{100} = \frac{x}{60}$ b) $\frac{15}{100} = \frac{60}{x}$ c) $\frac{60}{100} = \frac{15}{x}$ d) $\frac{100}{60} = \frac{x}{15}$

10) Which equation relates the simple interest (I), the principal (p), the annual interest rate (r), and time (t) expressed in years?

- a) $I = p + r + t$ b) $I = pr + t$ c) $I = prt$ d) $I = p + rt$

11) Ahmed works in a part time job with a salary of AED 500 per week. His salary increased with the end of the month to AED 600 AED, what is the percentage of the increase?

- a) 10% b) 20% c) 30% d) 40%

12) The Tax on selling tablets is 5%. Mona bought the tablet shown in the picture, how much tax did Mona pay?



- a) 150 b) 5 c) 500 d) 50

13) Evaluate $|-15| + |-150|$.

- a) 135 b) 165 c) -165 d) -135

14) A submarine is diving from the surface of the water at a rate of 600 meter/minute. What depth will the submarine reach after 10 minutes from the beginning of its dive?

- a) -6000 b) 60 c) -60 d) 600

15) What is the value of $-10 - (-4)$?

- a) $-10 - 4$ b) $-10 + 4$ c) $10 - 4$ d) $10 + 4$

16) What is the value of $\left(\frac{-2}{8}\right) + \left(\frac{-1}{4}\right)$?

- a) $\frac{-2}{8}$ b) -1.5 c) -0.5 d) -4

17) Fill in the blank: $\frac{-5}{8} > \square$.

- a) $\frac{-3}{8}$ b) $\frac{-1}{8}$ c) $\frac{-7}{8}$ d) $\frac{-2}{8}$

18) Write -0.025 as a fraction in a simple form.

- a) $\frac{25}{100}$ b) $\frac{-1}{40}$ c) $\frac{4}{20}$ d) $\frac{-5}{50}$

19) What is the value of $\left(\frac{-7}{8}\right) \times \left(2\frac{2}{5}\right)$?

- a) $\frac{21}{10}$ b) $\frac{-21}{40}$ c) $\frac{21}{40}$ d) $\frac{-21}{10}$

20) Mohammed has $7\frac{3}{4}$ liters of fruit juice. He wants to pour the juice into similar cups, each having a capacity of $\frac{1}{4}$ liter. How many cups can he fill?

- a) 28 b) 7 c) 31 d) 35



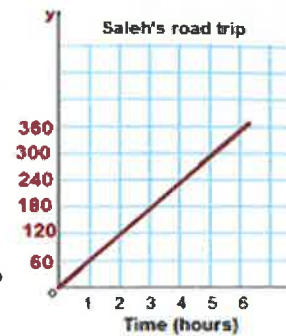
Question 2

Show the details in all your answers.

60

The Mahmoud and Saleh families took each a 4-hour road trip. The distances traveled by each family are shown in the table and graph on the side. Answer questions (21, 22, 23).

Distance (miles)



Time (hours)	Distance (miles)
2	70
3	105
4	140

21) Which family averaged fewer miles per hour?

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22) What is the distance travelled by the Mahmoud family after 6 hours?

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23) Determine whether the change of distance with respect to time is a direct variation. Justify your answer.

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24) Find M, N, P in the following table:

Whole	Part	Percent
35	28	M
60	N	0.15
P	42	21%

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M = , N = , P =

25) Shayma estimated the distance from Ras al-Khaimah to Umm al-Quwain by car to be 70 kilometers.

The actual distance is 80 kilometers.

Find the error percentage.



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26) Find each of the following quantities in the simplest form:

$$(-5)(-2)5 =$$

$$\frac{3}{10} - \left(-\frac{1}{4}\right) =$$

$$\left(\frac{-1}{6}\right) \times \left(\frac{-2}{9}\right) =$$

$$-\frac{4}{5} \div \frac{8}{9} =$$

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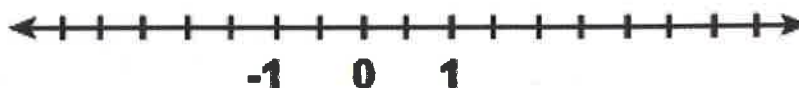
27) If $a=2$ and $b=-1$, find the following quantities:

$$(ab) \div |b| =$$

$$(a^2) + 3b + 7 =$$

.....

28) Represent the numbers $(-2, 0.5, -1.5, 2)$ on the number line.



29) Marah is cutting a strip of length $3\frac{3}{4}$ meters into 5 smaller strips of equal length to decorate her class. What would be the length of each of these 5 strips in centimeters ?



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30) For every person having the flu, there are 6 people who have only flu-like symptoms. If a doctor sees 70 patients, how many patients you would expect to have only flu-like symptoms?

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End of Exam

Good luck