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NAME:

Grade: 7

DATE:

Section:

Instructions:

- ❖ Read the questions carefully
- ❖ Answer all the questions on the paper
- ❖ Work neatly
- ❖ Believe in yourself

Section A

Question 1

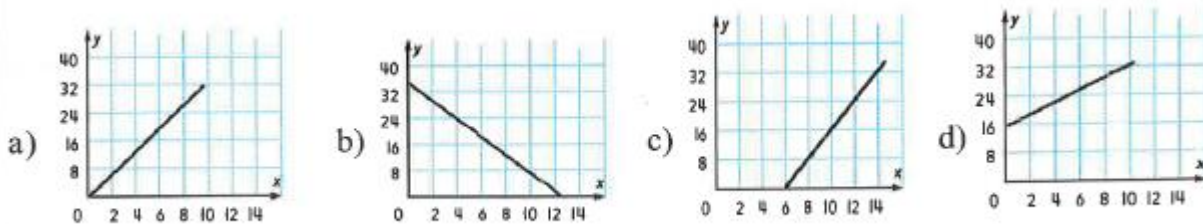
1. Hamad writes 144 words in 3 minutes. Find the unit rate at which he writes words per minute.

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

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

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

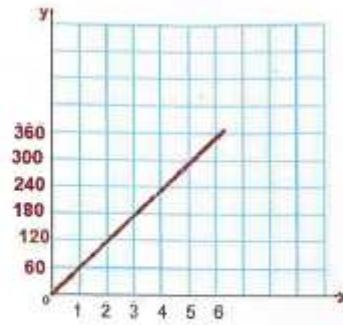
3. Which of the following graphs represents a proportional relationship?



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. What is 30% of 140?

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

7. What is the best estimate of 195% of 200?

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

8. 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) $\frac{100}{60} = \frac{x}{15}$

9. 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%

10. 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

11. Evaluate $|-15| + |-150|$.

a) 135

b) 165

c) -165

d) -135

12. 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

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

a) $-10 - 4$

b) $-10 + 4$

c) $10 - 4$

d) $10 + 4$

14. 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

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

a) $\frac{-3}{8}$

b) $\frac{-1}{8}$

c) $\frac{-7}{8}$

d) $\frac{-2}{8}$

16. Write -0.025 as a fraction in a simple form.

a) $\frac{25}{100}$

b) $\frac{-1}{40}$

c) $\frac{4}{20}$

d) $\frac{-5}{50}$

17. 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) $\frac{-21}{10}$

18. 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

19. Evaluate $\frac{1}{10} + s$ if $s = \frac{3}{5}$.

a) $\frac{7}{10}$

b) $\frac{4}{10}$

c) $\frac{4}{15}$

d) $\frac{2}{5}$

20. Jared and his friend Andre ordered a pizza. Jared ate $\frac{2}{5}$ of the pizza and Andre ate $\frac{1}{3}$ of the pizza. How much more of the pizza did Jared eat?

a) $\frac{8}{15}$

b) $\frac{1}{15}$

c) $\frac{4}{15}$

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

Section B

Question 2

- Show the details in your answer

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).



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

21. Which family averaged fewer miles per hour?

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

23. Determine if the change was constant.

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. Find each of the following quantities in the simplest form:

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

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

.....

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

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

.....

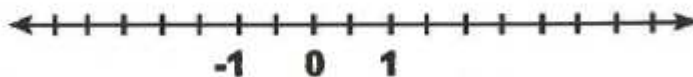
26. If $a=2$ and $b=-1$, find the following quantities:

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

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

.....

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



28. Omer is taking a loan for AED 12,000. He plans on paying off the loan in 5 years. At the end of the 5 years, Ahmed will have paid AED 3600 in interest. What is the simple interest rate on the loan?

29. Hamza want to buy a new laptop, the price of the laptop is AED1125, if the store offers 15% discount and 5% sales tax added after the discount. Find the selling price.
