شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية





مراجعة أسئلة وفق الهيكل الوزاري ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف السادس ← رياضيات ← الفصل الثاني ← الملف

تاريخ نشر الملف على موقع المناهج: 29-02-2024 06:16:03

التواصل الاجتماعي بحسب الصف السادس









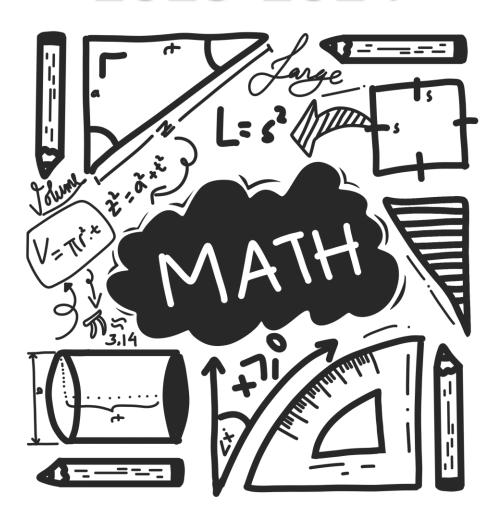
روابط مواد الصف السادس على تلغرام

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المزيد من الملفات بحسب الصف السادس والمادة رياضيات في الفصل الثاني	
تجميعة أسئلة وفق الهيكل الوزاري ريفيل	1
تجميعة أسئلة وفق الهيكل الوزاري بريدج	2
نموذج الهيكل الوزاري ريفيل المسار العام	3
نموذج الهيكل الوزاري بريدج المسار العام	4
نموذج الهيكل الوزاري ريفيل المسار المتقدم	5



EoT2-Coverae-Grade 6-General 2023-2024



Name:

Grade 6 / Section:

M5L1 – Powers and Exponents

Exercise (1-6)

Page 267

Write each product using an exponent. (Examples 1 and 2)

1.
$$4 \times 4 \times 4$$

4.
$$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$$

5.
$$\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3}$$

M5L2 – Numerical Expressions

Exercise (1-10)

Page 275

Evaluate each expression. (Examples 1 and 2)

1.
$$64 \div (15 - 7) \times 2 - 9$$

2.
$$9 + 8 \times 3 - (5 \times 2)$$

3.
$$4 \times (5^2 - 12) - 6$$

4.
$$78 - 2^4 \div (14 - 6) \times 2$$

5.
$$9 + 7 \times (15 + 3) \div 3^2$$

6.
$$13 + (4^3 \div 2) \times 5 - 17$$

7.
$$4 + \left(6^2 \div \frac{1}{4}\right) \times 3$$

8.
$$12 + \left(2^3 \div \frac{2}{3}\right) - 2$$

9.
$$36 \div \left(3^2 \div \frac{3}{4}\right) - 2.4$$

10. 80 ÷
$$\left(4^2 \div \frac{2}{5}\right)$$
 + 3.75

Identify the terms, like terms, coefficients, and constants in each expression. (Example 1)

3.
$$4 + 4y + y + 3$$

M5L4 – Evaluate Algebraic Expressions

Exercise (1-9)

Page 293

Evaluate each expression when $x = \frac{3}{4}$ and y = 2.5. (Example 1)

Evaluate each expression when $a = \frac{2}{3}$, $b = \frac{4}{5}$, and c = 6. Write in simplest form. (Example 2)

6.
$$b - a$$

Evaluate each expression when a=4, b=3, and $c=\frac{1}{3}$. (Example 3)

7.
$$(3a + 18c) \div b^2$$

8.
$$(a^2 + 12c) \div (7b - 1)$$

9.
$$(2b + 3a)(c^2)$$

Use any method to find the greatest common factor of each pair of numbers. (Examples 1 and 2)

1. 12, 30

2. 4, 16

3. 9, 36

4. 35, 63

5. 42, 56

6. 54, 81

M5L6 – Use the Distributive Property

Exercise (1-12) Page 313

Use the Distributive Property to expand each algebraic expression. (Example 1)

1. 3(x + 8)

2. 5(6 + x)

3. 9(3 + x)

Use the GCF to factor each numerical expression. (Example 3)

7. 16 + 48

8. 35 + 63

9. 26 + 39

Use the GCF to factor each algebraic expression. (Example 4)

10.
$$8x + 16$$

11.
$$24 + 6x$$

12.
$$42 + 7x$$

M5L7 – Equivalent Algebraic Expressions

Exercise (5-10)

Page 327

Simplify each expression. (Examples 4 and 5)

5.
$$3x + 4 + 5x - 1$$

6.
$$10 + 7x - 5 + 4x$$

7.
$$4x^2 + 6x + 8 + x + 2$$

8.
$$\frac{1}{2}x^2 + x + \frac{1}{2} + 2x + \frac{1}{2}x^2$$

9. Simplify
$$\frac{3}{4} + \frac{2}{3}(9x + 6) + 4x + 3\frac{1}{4}$$
.

10. Multiselect Which of the following are equivalent to $\frac{3}{4}(8x^2 + 1) + 3x^2 + \frac{1}{4}$? Select all that apply.

$$6x^2 + \frac{3}{4} + 3x^2 + \frac{1}{4}$$

$$6x^2 + 1 + 3x^2 + \frac{1}{4}$$

$$9x^2 + 1\frac{1}{4}$$

$$9x^2 + \frac{3}{4} + \frac{1}{4}$$

$$9x^2 + 2$$

$$9x^2 + 1$$

Use properties of operations to determine whether or not the expressions are equivalent. (Example 1)

1. (x + 10) + x + 9 and 2(x + 7) + 5

2. 0.5x + 1 and 1(0.5x)

Use substitution to determine whether or not the expressions are equivalent. (Examples 2 and 3)

3.
$$3x + 2x + x$$
 and $7x$

4.
$$x^2 + 1$$
 and $\frac{2}{3}x^2 + \frac{1}{3}x^2 + 1 + x$

M5L5 – Factors and Multiples

Exercise (7-10) Page 303

- 7. On every fourth visit to the hair salon, Margot receives a discount of \$5. On every tenth visit, she receives a free hair product. After how many visits will Margot receive the discount and a free product at the same time? (Example 3)
- 8. The table shows the city bus schedule for certain bus lines. Both buses are at the bus stop right now. In how many minutes will both buses be at the bus stop again? (Example 3)

Bus Line	Arrives at the bus stop every
А	25 minutes
В	15 minutes

Use any method to find the least common multiple of each pair of numbers. (Example 4)

9. 4, 6

Exercise (5-10)

Page 349

5.
$$4.5x = 18; 3, 4, 5$$

6.
$$2.25c = 27$$
; 12, 13, 14

7.
$$d \div 5.5 = 4$$
; 22, 23, 24

8.
$$36.3 \div y = 12.1; 2, 3, 4$$

M6L2 – One-Step Addition Equations

Solve each equation. Check your solution. (Examples 2 and 3)

6. 5 + x = 10

7.
$$3\frac{1}{4} + z = 6\frac{3}{4}$$

8.
$$9\frac{1}{2} = b + 2\frac{1}{4}$$

Solve x + 5.15 = 23.85.

Solve each equation. Check your solution. (Examples 2 and 3)

5.
$$24 = x - 5$$

6.
$$z - 7 = 19$$

7.
$$z - 9\frac{1}{3} = 1\frac{5}{9}$$

8.
$$5\frac{1}{2} = b - 12\frac{1}{4}$$

9.
$$67.9 = c - 4.45$$

10. Equation Editor Solve
$$x - 7.49 = 87.3$$
.

14. Find the Error A student is solving the equation x - 3.2 = 5.5. Find the student's mistake and correct it.

$$x - 3.2 = 5.5$$

 $- 3.2 - 3.2$
 $x = 2.3$

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W16L4 -	Une-Step	Multiplication	Equations

Exercise (1-4)

Page 367

Page 389

- 1. Maribel and some friends went to an adventure park. The total cost of their tickets was \$374 and each person paid \$46.75. Write a multiplication equation that can be used to find how many people bought tickets to the adventure park, (Example 1)
- 2. It takes Samuel $\frac{1}{5}$ hour to walk a mile. Yesterday, Samuel walked for $1\frac{1}{2}$ hours. Write a multiplication equation that can be used to find the number of miles Samuel walked. (Example 1)

- The distance around a lake is 2.6 miles. On Saturday, Doug biked a total of 18.2 miles around the lake. Write a multiplication equation that can be used to find how many times Doug biked around the lake. (Example 1)
- An express delivery company charges \$3.25 per pound to mail a package. Georgia paid \$9.75 to mail a package. Write a multiplication equation that can be used to find the weight of the package in pounds. (Example 1)

M6L6 – Inequalities

Exercise (7-10)

- 7. Which of the following are solutions of the inequality $t + 7 \le 12$: 4, 5, 6? (Example 4)
- 8. Which of the following are solutions of the inequality h - 4 > 9: 12, 13, 14? (Example 4)

- 9. Which of the following are solutions of the inequality $8r \ge 1.8$: $\frac{1}{5}$, $\frac{1}{4}$, $\frac{1}{3}$? (Example 5)
- 10. Which of the following are solutions of the inequality $\frac{2.4}{n}$ < 6: 0.25, 0.4, 0.5? (Example 5)

M5L3 - Write Algebraic Expressions

Exercise (1-3)

Page 285

For each verbal phrase, define a variable to represent the unknown quantity. Then write the phrase as an algebraic expression. (Examples 2-4)

- 4. three more pancakes than Hector ate
- twelve fewer questions than were on the first test
- two and one-half times the number of minutes spent exercising
- 7. one-third the number of yards

- 8. four less than seven times Lynn's age
- \$2.50 more than one-fourth the cost of a pizza

M6L5 - One-Step Division Equations

Exercise (5-10)

Page 375

Solve each equation. Check your solution. (Examples 2 and 3)

5.
$$6 = \frac{j}{8}$$

6.
$$\frac{k}{7} = 7$$

7.
$$\frac{z}{4} = \frac{2}{3}$$

8.
$$\frac{1}{2} = \frac{w}{8}$$

9. 5.31 =
$$\frac{p}{9.2}$$

10. Equation Editor Solve $\frac{X}{1.3} = 1.94$.

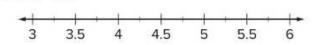
- 1. The minimum deposit for a new checking account is \$75. Write an inequality to represent the amounts in dollars a that could be deposited in a new checking account. (Example 1)
- 2. To win a medal in a 5K race, a runner's time must be less than 22 minutes. Write an inequality to represent the times in minutes m that would win a medal. (Example 1)

Graph each inequality on the number line. (Examples 2 and 3)

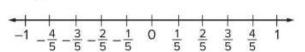




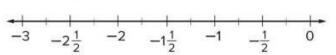
4.
$$d \ge 4.75$$



5.
$$a > \frac{4}{5}$$



6.
$$d \leq -2\frac{1}{4}$$



M7L1 – Relationships Between Two Variables

Exercise (1-6)

Page 403

1. Sadie ordered a pizza and had it delivered. The delivery fee is \$3.50. The total cost c is equal to the cost of her pizza p plus \$3.50. The rule is p + 3.50. Complete the table using the rule to find the total cost if her pizza costs \$9.75, \$12.00, or \$14.50. (Example 1)

Input, Cost of Pizza (\$), p	Rule p + 3.50	Output, Total Cost (\$), c
9.75		
12.00		
14.50		

2. Joshua has a coupon for \$1.50 off his purchase at the souvenir shop. The total cost c is equal to the cost of his purchase p minus \$1.50. The rule is p-1.50. Complete the table using the rule to find the total cost if his purchase is \$5.67, \$8.34, or \$11.97. (Example 1)

Input, Cost of Purchase (\$), p	Rule p — 1.50	Output, Total Cost (\$), c
5.67		
8.34		
11.97		

3. Miranda has a coupon for \$0.75 off any salad at a restaurant. The total cost c is equal to the cost of her salad s minus \$0.75. The rule is s — 0.75. Complete the table using the rule to find the total cost if her salad costs \$2.79, \$3.55, or \$4.25. (Example 1)

Input, Cost of Salad (\$), s	Rule s — 0.75	Output, Total Cost (\$), c
2.79		
3.55		
4.25		

4. Avery is buying material by the yard to make bags. The material costs \$4.98 per yard. The total cost c of y yards is equal to 4.98 times y. Complete the table to find the number of yards Avery purchased if the total cost is \$14.94, \$29.88, or \$44.82. (Example 2)

Input, Number of Yards, y	Rule 4.98 <i>y</i>	Output, Total Cost (\$), c
		14.94
		29.88
		44.82

5. Each pie at a bakery costs \$9.50. The total cost c of p pies is equal to 9.50 times p. Complete the table to find the number of pies purchased if the total cost is \$19.00, \$28.50, or \$47.50. (Example 2)

Input, Number of Pies, p	Rule 9.50p	Output, Total Cost (\$), c
		19.00
		28.50
		47.50

6. Table Item Anthony is buying plants for his garden. Each plant costs \$0.95. The total cost c of p plants is equal to 0.95 times p. Complete the table to find the number of plants Anthony purchased if the total cost is \$7.60, \$11.40, or \$15.20.

Input, Number of Plants, p	Rule 0.95 <i>p</i>	Output, Total Cost (\$), c
		7.60
		11.40
		15.20

 The table shows the total cost c of buying t movie tickets. Write an equation to represent the relationship between c and t. (Example 1)

Number of Tickets, t	Total Cost (\$), c
1	7
2	14
3	21
4	28

 The table shows the total number of pencils p in b boxes. Write an equation to represent the relationship between p and b. (Example 1)

Number of Boxes, b	Total Number of Pencils, p
1	12
2	24
3	36
4	48

 The table shows the total cost of bowling any number of games and renting bowling shoes. Write a two-step equation to represent the total cost c for bowling g games. (Example 2)

Number of Games, g	Total Cost (\$), c
1	6
2	10
3	14
4	18

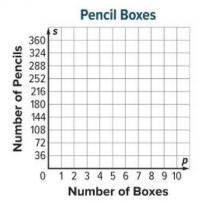
4. The table shows the total cost of renting a canoe based on the number of hours and a one-time rental fee. Write a two-step equation to represent the total cost c of renting a canoe for h hours. (Example 2)

Number of Hours, h	Total Cost (\$), c
1	16
2	27
3	38
4	49

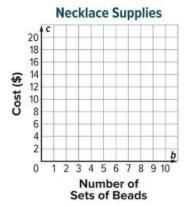
5. Open Response The table shows the total cost of belonging to a fitness center based on the number of months and a one-time registration fee. Write a two-step equation to represent the total cost c for belonging to the fitness center for m months.

Number of Months, m	Total Cost (\$), c
1	25
2	40
3	55
4	70

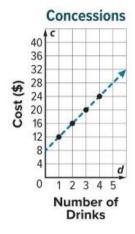
 The equation p = 144b represents the number of pencils p in b boxes. Graph the relationship on the coordinate plane. (Example 1)



The equation c = 2b + 6 represents the total cost c of b sets of beads and one necklace string. Graph the relationship on the coordinate plane. (Example 1)



3. The graph shows the total cost c of buying one large bucket of popcorn and d large drinks. Write an equation from the graph that could be used to find the total cost c if you buy one large bucket of popcorn and d large drinks. (Example 2)



4. Open Response The graph shows the total cost c of buying one parking pass and t tickets to a concert. Write an equation from the graph that could be used to find the total cost c if you buy one parking pass and t tickets to a concert. (Example 2)

