

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



مراجعة الوحدة الخامسة Expressions Algebraic and Numerical

[موقع المناهج](#) ⇨ [المناهج الإماراتية](#) ⇨ [الصف السادس](#) ⇨ [رياضيات](#) ⇨ [الفصل الثاني](#) ⇨ [الملف](#)

تاريخ نشر الملف على موقع المناهج: 05:17:10 2024-02-05 | اسم المدرس: Zain Ahmed

التواصل الاجتماعي بحسب الصف السادس



روابط مواد الصف السادس على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

[التربية الاسلامية](#)

المزيد من الملفات بحسب الصف السادس والمادة رياضيات في الفصل الثاني

[مراجعة الاختبار التقويم الأول](#)

1

[حل أسئلة الدرس الثاني التعابير العددية](#)

2

[أسئلة تدريبية اختبار القياس الدولي IBT](#)

3

[مراجعة الاختبار القصير الأول](#)

4

[مراجعة على الوحدة الخامسة](#)

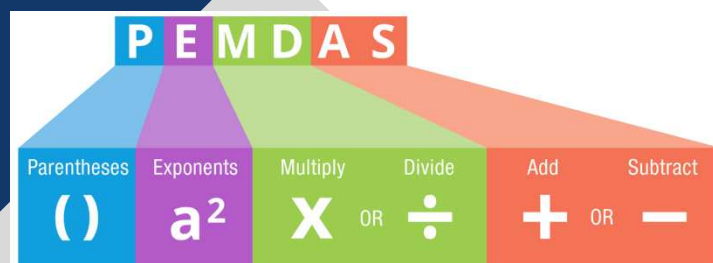
5

Module 5 review

Numerical and Algebraic Expressions

Grade 6

Term 2



Alghazali School

Done by/Ahmed Zain

Lesson 5-1 • Extra Practice (RM C1)

1) Write $8 \times 8 \times 8 \times 8$ using an exponent.

2) Write $6 \times 6 \times 6 \times 6 \times 6$ using an exponent.

3) Write $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ using an exponent.

4) Write $12 \times 12 \times 12 \times 12 \times 12$ using an exponent.

5) Write $13 \times 13 \times 13 \times 13 \times 13 \times 13$ using an exponent.

6) Write $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ using an exponent.

7) Write $\frac{2}{3} \times \frac{2}{3}$ using an exponent.

8) Write $\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5}$ using an exponent.

9) Write $2\frac{3}{4} \times 2\frac{3}{4} \times 2\frac{3}{4} \times 2\frac{3}{4} \times 2\frac{3}{4}$ using an exponent.

Lesson 5-1 • Extra Practice (RM C1)

10) Write $3.25 \times 3.25 \times 3.25 \times 3.25$ using an exponent.

11) Write $0.125 \times 0.125 \times 0.125$ using an exponent.

12) Write $1.5 \times 1.5 \times 1.5 \times 1.5 \times 1.5$ using an exponent.

13) Evaluate 3^6 .

14) Evaluate 8^3 .

15) Evaluate 4^5 .

16) Evaluate $\left(\frac{3}{5}\right)^4$.

17) Evaluate $\left(\frac{1}{2}\right)^6$.

18) Evaluate $\left(\frac{2}{7}\right)^2$.

Lesson 5-2 • Extra Practice (RM C1)

1) Evaluate $81 \div (21 - 12) \times 2 - 3$.

2) Evaluate $4 + (4 \times 5) - (2 \times 3)$.

3) Evaluate $6 + 3 \times (18 - 3)$.

4) Evaluate $2 + 3 \times (8 - 4) \div 6$.

5) Evaluate $4^2 \div (2 \times 4) + 5$.

6) Evaluate $12 \times (6 \div 2) + 6$.

7) Evaluate $75 \div (5 \times 3) - (4 - 1)$.

8) Evaluate $73 - (3^4 \div 3) - 35$.

9) Evaluate $9 + 7 \times (2^6 \div 16)$.

Lesson 5-2 • Extra Practice (RM C1)

10) Evaluate $5^3 \div (17 + 8) - 2$.

11) Evaluate $(15 + 6) \div 3 + 10$.

12) Evaluate $(24 + 12) \div 3^2$.

13) Evaluate $2 + (3^3 \div \frac{4}{5})$.

14) Evaluate $22 + (43 - 6^2) \div \frac{1}{2}$.

15) Evaluate $(2^3 \div \frac{1}{4}) \div 2 + 1.5$.

16) Evaluate $48 \div (2^4 \div \frac{2}{3}) + 10\frac{1}{4}$.

Lesson 5-2 • Extra Practice (RM C1)

17A) Coach Chris is shopping for the items shown in the table.

	Socce r ball	Shirt	Pen
	5.00	12.5 0	1.39

Write an expression to represent the total cost of 5 soccer balls, 2 shirts, and 7 pens.

$$(\underline{\hspace{2cm}} \times 5.00) + (2 \times \underline{\hspace{2cm}}) + (\underline{\hspace{2cm}} \times 1.39)$$

17B) What is the total cost of the items?

\$ _____

18A) Diana and 2 friends are visiting the local fair. Each person buys a hamburger for \$6.60 and a drink for \$3. They have a coupon for \$1 off each hamburger. Write an expression to represent the total cost.

- $(3 \times 6.60) + (3 \times 3.00)$
- $3 \times (6.60 - 1) + (3^2)$
- $(3 \times 6.60) - 1 + (2^3)$
- $(3 \times 6.60) - (3 \times 1.00) - (3 \times 3.00)$

18B) What is the total cost of the items?

\$ _____

Lesson 5-3 · Extra Practice (RM C1)

- 1) Identify the terms, like terms, coefficients, and constants in the expression $6h + 3h + 2 + 7h$ by dragging each item to the appropriate box.

terms	like terms	coefficients	constants

Answer Bank

$6h$ 6 $3h$ 3 2 $7h$ 7

- 2) Identify the terms, like terms, coefficients, and constants in the expression $8c + 5 + 3 + 4c$ by dragging each item to the appropriate box.

terms	like terms	coefficients	constants

Answer Bank

$8c$ 8 5 3 $4c$ 4

Lesson 5-3 • Extra Practice (RM C1)

- 7) Which expression could be used to represent the phrase *twelve more birds than Melissa saw* where b represents the number of birds Melissa saw?
- $12b$
 - $b + 12$
 - $12 - b$
 - $b \div 12$
- 8) Which expression could be used to represent the phrase *fifteen fewer stickers than Ernie had* where s represents the number of stickers Ernie had?
- $s - 15$
 - $15 - s$
 - $s \div 15$
 - $15 + s$
- 9) Which expression could be used to represent the phrase *three and one-half times the number of colored pencils in the box* where p represents the number of colored pencils in the box?
- $3.5 \div p$
 - $p \div 3.5$
 - $p - 3.5$
 - $3.5p$
- 10) Which expression could be used to represent the phrase *three-fourths the number of gallons of water in the bird bath* where w represents the number of gallons of water in the bird bath?
- $w - \frac{3}{4}$
 - $\frac{3}{4}w$
 - $w \div \frac{3}{4}$
 - $\frac{3}{4} \div w$
- 11) Which expression could be used to represent the phrase *five less than three times the number of beads* where b represents the number of beads?
- $5b - 3$
 - $5 - 3b$
 - $3b - 5$
 - $5b \div 3$

Lesson 5-3 • Extra Practice (RM C1)

- 12)** Which expression could be used to represent the phrase *six more than one-half Jason's age* where a represents Jason's age?
- $6a + \frac{1}{2}$
- $6 \div \frac{1}{2}a$
- $\frac{1}{2}a + 6$
- $\frac{1}{2}a - 6$
- 13)** Which expression could be used to represent the phrase *seven-eighths the number of minutes spent reading* where m represents the number of minutes spent reading?
- $m + \frac{7}{8}$
- $\frac{7}{8}m$
- $m \div \frac{7}{8}$
- $\frac{7}{8} - m$
- 14)** Which expression could be used to represent the phrase *\$4.25 more than one-half the number of cupcakes* when c represents the number of cupcakes?
- $\frac{1}{2}c + 4.25$
- $4.25 - \frac{1}{2}c$
- $4.25c + \frac{1}{2}$
- $\frac{1}{2}c \times 4.25$
- 15)** A piano teacher charges \$25 to visit a house plus \$20 for every hour of lessons. Which expression represents the total cost of hiring the piano teacher where h represents the number of hours of lessons?
- $25 + 20h$
- $20 + 25h$
- $(20 + 25)h$
- $h + 25 + 20$

Lesson 5-4 • Extra Practice (RM C1)

1) Evaluate the expression $5a$ when $a = \frac{1}{2}$.

2) Evaluate the expression b^2 when $b = 1.75$.

3) Evaluate the expression $\frac{7}{b}$ when $b = 1.75$.

4) Evaluate the expression $7b$ when $b = 1.75$.

5) Evaluate the expression a^2 when $a = \frac{1}{2}$.

6) Evaluate the expression $\frac{4}{a}$ when $a = \frac{1}{2}$.

7) Evaluate the expression $z + x$ when $x = \frac{1}{3}$ and $z = 4$. Write in simplest form.

8) Evaluate the expression $y + x$ when $x = \frac{1}{3}$ and $y = \frac{4}{5}$. Write in simplest form.

9) Evaluate the expression $z + y$ when $y = \frac{4}{5}$ and $z = 4$. Write in simplest form.

Lesson 5-4 • Extra Practice (RM C1)

- 10) Evaluate the expression $y - x$ when $x = \frac{1}{3}$ and $y = \frac{4}{5}$. Write in simplest form.

- 11) Evaluate the expression $z - x$ when $x = \frac{1}{3}$ and $z = 4$. Write in simplest form.

- 12) Evaluate the expression $z - y$ when $y = \frac{4}{5}$ and $z = 4$. Write in simplest form.

- 13) Evaluate the expression $(4r + 24s) \div q$ when $q = 2$, $r = 4$, and $s = \frac{3}{4}$.

- 14) Evaluate the expression $(10q + 2r)(s)$ when $q = 2$, $r = 4$, and $s = \frac{3}{4}$.

- 15) Evaluate the expression $(32s + r^2) \div (q^2)$ when $q = 2$, $r = 4$, and $s = \frac{3}{4}$.

- 16) Evaluate the expression $(q^4 - 2r)(4s)$ when $q = 2$, $r = 4$, and $s = \frac{3}{4}$.

- 17) Evaluate the expression $(8s + 6r) \div (5q - 7)$ when $q = 2$, $r = 4$, and $s = \frac{3}{4}$.

- 18) Evaluate the expression $(2r + q^3)(s^2)$ when $q = 2$, $r = 4$ and $s = \frac{3}{4}$.

Lesson 5-5 · Extra Practice (RM C1)

1) What is the greatest common factor of 8 and 24?

2) What is the greatest common factor of 9 and 45?

3) What is the greatest common factor of 6 and 18?

4) What is the greatest common factor of 18 and 30?

5) What is the greatest common factor of 6 and 9?

6) What is the greatest common factor of 14 and 49?

7) What is the greatest common factor of 48 and 80?

8) What is the greatest common factor of 13 and 37?

9) What is the greatest common factor of 42 and 63?

Lesson 5-5 • Extra Practice (RM C1)

- 10) What is the greatest common factor of 36 and 60?

- 11) What is the greatest common factor of 51 and 85?

- 12) What is the greatest common factor of 22 and 55?

- 13) The table shows the schedule for certain trams at a theme park.

G	18 minutes
H	24 minutes

Both trams are at the tram station right now. In how many minutes will both trams be at the station again?

__ minutes

- 14) On every third visit to Craft Depot, you receive a free craft kit. On every fifth visit, you receive a discount of \$6. After how many visits do you receive the free craft kit and the discount at the same time?

__ visits

- 15) The least common multiple of 2 and 8 is _____.

Student Name: _____

Date: _____

Lesson 5-5 • Extra Practice (RM C1)

16) The least common multiple of 6 and 7 is _____.

17) The least common multiple of 6 and 8 is _____.

18) The least common multiple of 8 and 10 is _____.

19) Determine the greatest common factor.
20 and 5

The greatest common factor of 20 and 5 is _____.

Lesson 5-6 · Extra Practice (RM C1)

1) Use the Distributive Property to expand $4(x + 3)$.

2) Use the Distributive Property to expand $7(5 + x)$.

3) Use the Distributive Property to expand $3(4 + x)$.

4) Use the Distributive Property to expand $9(x + 2)$.

5) Find $10 \cdot 2\frac{4}{5}$ by using the Distributive Property.

6) Find $26 \cdot 1\frac{1}{2}$ by using the Distributive Property.

7) Find $16 \cdot 3\frac{3}{4}$ by using the Distributive Property.

8) Find $21 \cdot 4\frac{1}{3}$ by using the Distributive Property.

9) Use the GCF to factor $12 + 60$.

Lesson 5-6 · Extra Practice (RM C1)

10) Use the GCF to factor $24 + 56$.

11) Use the GCF to factor $21 + 30$.

12) Use the GCF to factor $34 + 51$.

13) Use the GCF to factor $9x + 54$.

14) Use the GCF to factor $12 + 4x$.

15) Use the GCF to factor $6x + 48$.

16) Use the GCF to factor $45 + 5x$.

Lesson 5-7 • Extra Practice (RM C1)

1) Fill in the blanks using the available answer choices.

Use properties of operations to determine whether or not $2(x + 4) + x + 8$ and $3(x + 4) + 4$ are equivalent.

The expressions are _____.
(Blank 1)

Blank 1 options

- equivalent
- not equivalent

2) Fill in the blanks using the available answer choices.

Use properties of operations to determine whether or not $2 \cdot 5(1 + x)$ and $0 \cdot 5x + 2 \cdot 5x$ are equivalent.

The expressions are _____.
(Blank 1)

Blank 1 options

- equivalent
- not equivalent

3) Fill in the blanks using the available answer choices.

Use properties of operations to determine whether or not $8(x + 2)$ and $4(x + 2) + 2(2 + x)$ are equivalent.

The expressions are _____.
(Blank 1)

Blank 1 options

- equivalent
- not equivalent

Lesson 5-7 • Extra Practice (RM C1)

4) Fill in the blanks using the available answer choices.

Use properties of operations to determine whether or not $x + 14 + 0$, $5(2x)$ and $2(7 + x)$ are equivalent.

The expressions are _____.
(Blank 1)

Blank 1 options

- equivalent
- not equivalent

5) Fill in the blanks using the available answer choices.

Use substitution to determine whether or not the expressions $5x + x + 3x$ and $8x$ are equivalent.

The expressions are _____.
(Blank 1)

Blank 1 options

- equivalent
- not equivalent

6) Fill in the blanks using the available answer choices.

Use substitution to determine whether or not the expressions $6x - 3x + 2x$ and $4x + 2x$ are equivalent.

The expressions are _____.
(Blank 1)

Blank 1 options

- equivalent
- not equivalent

7) Fill in the blanks using the available answer choices.

Use substitution to determine whether or not the expressions $x - \frac{1}{5}x - \frac{2}{5}x$ and $2\left(\frac{1}{5}x\right)$ are equivalent.

The expressions are _____.
(Blank 1)

Blank 1 options

- equivalent
- not equivalent

Lesson 5-7 • Extra Practice (RM C1)

8) Fill in the blanks using the available answer choices.

Use substitution to determine whether or not the expressions $x^2 + \frac{1}{2}$ and $2\left(\frac{1}{4}\right) + x^2$ are equivalent.

The expressions are _____.

(Blank 1)

Blank 1 options

- equivalent
- not equivalent

9) Simplify the expression $8x + 4 + 2x + 3$.

10) Simplify the expression $7 + 4x + 8x - 2$.

11) Simplify the expression $x + 9 + 6x - 4 + x$.

12) Simplify the expression $11x + 12 + 4x - 7$.

13) Simplify the expression $2x^2 + 3x + 4 + 5x^2$.

14) Simplify the expression $5x^2 + 6x + x^2 + 10$.

15) Simplify the expression $\frac{1}{2}x^2 + 3x + \frac{1}{2}x^2 + 2$.