

تم تحميل هذا الملف من موقع المناهج الإماراتية



ملزمة أسئلة مراجعة وفق الهيكل الوزاري المسار المتقدم منهج ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف الثامن ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 00:01:19 2024-11-04

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منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي للمدرس

المزيد من مادة
رياضيات:

إعداد: مدرسة المريحيب

التواصل الاجتماعي بحسب الصف الثامن



الرياضيات



اللغة الانجليزية



اللغة العربية



التربية الاسلامية



المواد على تلغرام

صفحة المناهج
الإماراتية على
فيسبوك

المزيد من الملفات بحسب الصف الثامن والمادة رياضيات في الفصل الأول

حل تجميعية أسئلة وفق الهيكل الوزاري حسب منهج بريدج

1

تجميعية أسئلة وفق الهيكل الوزاري حسب منهج بريدج

2

ملزمة تجميعية أسئلة وفق الهيكل الوزاري منهج بريدج

3

أسئلة اختبار قصير في الوحدة الثالثة المعادلات ذات المتغيرين

4

مراجعة امتحانية دروس الوحدة الثالثة المعادلات ذات المتغيرين

5

GRADE 8 Advance: MATH EOT1 EXAM 2024-25-REVISION BOOKLET -1

Name: _____

Class: 8 / 6

Unit 1: Written part- Lesson 1.1 and 1.3, & MCQ: Lessons 2 1, 2.2, 2.3 and 2.6

Written Part-Write all the steps

Perform computations with numbers written in scientific notation	Question 7 - 12	Module -1-L 1.6 Page: 62
Estimate irrational numbers by approximating their locations on a number line or by truncating their decimal expansions	1 -10	Module -2 - L 2.4 Page: 109

Question 1 to 6:

Apply

7. A bacterium was found to have a mass of 2×10^{-12} gram. After 30 hours, one bacterium was replaced by a population of 480,000,000 bacteria. What is the mass of the population of bacteria after 30 hours? Write your answer in scientific notation.
8. At the beginning of the business day, a bank's vault held \$575,900. By the end of the day, $\$(3.5 \times 10^3)$ had been added to the vault. How much money did the bank's vault hold at the end of the business day? Write your answer in standard form.



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9. Explain how the Product of Powers and Quotient of Powers Properties help you to multiply and divide numbers in scientific notation.

11. **MP Find the Error** Miguel found the quotient $\frac{5.78 \times 10^5}{0.000002}$ as 0.289. Find his mistake and correct it.

10. **MP Persevere with Problems**

An Olympic-sized swimming pool holds 6.6043×10^5 gallons of water. A standard garden hose can deliver 9 gallons of water per minute. If the garden hose was filling the pool 24 hours per day, how many days would it take to fill the Olympic-sized pool? Explain your reasoning.

12. **MP Be Precise** A googol is the number 1 followed by 100 zeros. Earth's mass is 5.972×10^{24} kilograms. How many Earths are needed to have a total mass of 1 googol kilograms?

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Question 8 – 15:

Estimate each square root or cube root to the nearest integer. (Examples 1 and 3)

1. $\sqrt{125} \approx$ _____

2. $\sqrt{55} \approx$ _____

3. $\sqrt[3]{70} \approx$ _____

4. $\sqrt[3]{923} \approx$ _____

Estimate each square root to the nearest tenth. (Example 2)

5. $\sqrt{296} \approx$ _____

6. $\sqrt{5} \approx$ _____

7. $\sqrt{11} \approx$ _____

8. $\sqrt{62} \approx$ _____

Question 16:

The formula $s = \sqrt{18d}$ can be used to find the speed s of a car in miles per hour when the car needs d feet to come to a complete stop after stepping on the brakes. If it took a car 25 feet to come to a complete stop after stepping on the brakes, estimate the speed of the car. Truncate the value of $\sqrt{18d}$, when $d = 25$, to the tenths place. (Example 4)

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Question 16 and 17:

10. If the area of a square is 32 square feet, estimate the length of each side of the square to the nearest whole number.

Test Practice

11. Equation Editor Estimate the square root to the nearest tenth.

$$\sqrt{489}$$

← → ↶ ↷ ↸

1	2	3
4	5	6
7	8	9
0	.	-

MCO- Choose the correct answer

Use integers exponents to show repeated multiplication of rational numbers

1- 2

Module 1 Lesson 1.1

1 - 9

Module 1 Lesson 1.1 page 11

Question 18:

Write the expression $(-2)(-2)(-2)\left(\frac{3}{4}\right)\left(\frac{3}{4}\right)\left(\frac{3}{4}\right)\left(\frac{3}{4}\right)$ using exponents.

a) $(-2)^3\left(\frac{3}{4}\right)^3$

b) $(-2)^3\left(\frac{3}{4}\right)^4$

c) $(-2)^{-2}\left(\frac{3}{4}\right)^2$

d) $(-2)^2 \left(\frac{3}{4}\right)^7$

Question 19:

Write the expression $(a)(b)(b)(a)(b)$ using exponents.

Question 20 - 26:

Write each expression using exponents. (Examples 1 and 2)

1. $(-7) \cdot (-7) \cdot 5 \cdot 5 \cdot 5 \cdot 5 =$ _____

2. $n \cdot n \cdot p \cdot p \cdot r \cdot r \cdot r =$ _____

Evaluate each numerical expression. (Example 3)

3. $3^4 - (-4)^2 =$ _____

4. $6 + 2^6 =$ _____

5. Evaluate $x^3 - y^2$ if $x = 2$ and $y = \frac{3}{4}$.
(Example 4)

6. Evaluate $(g + h)^3$ if $g = 2$ and $h = -3$.
(Example 5)



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Question 27 - 29:

Replace \square with $<$, $>$, or $=$ to make a true statement: $(-3)^4 \square (-4)^3$.

Test Practice

A scientist estimates that, after a certain amount of time, there would be $2^5 \cdot 3^3 \cdot 10^5$ bacteria in a Petri dish. How many bacteria is this?

9. Multiselect Select all of the expressions that evaluate to negative rational numbers.

- $(-9)^4$
- $\left(-\frac{4}{5}\right)^3$
- $3^5 - 10^4$
- $(9.8)^2 - 10^2$
- $\left(-\frac{3}{8}\right)^2$

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Use integers exponents to show repeated multiplication of rational numbers

1 - 9

Module 1 Lesson 1.2
Page 23

Question 30 – 39:

Simplify each expression. (Examples 1–3)

1. $3^8 \cdot 3 =$ _____

2. $m^5 \cdot m^2 =$ _____

3. $3m^3n^2 \cdot 8mn^3 =$ _____

4. $9p^4 \cdot (-8p^2) =$ _____

5. Simplify $\frac{b^{12}}{b^5}$. (Example 4)

6. Simplify $\frac{5^5 \cdot 6^3 \cdot 8^{10}}{5^3 \cdot 6 \cdot 8^9}$. (Example 6)

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7. A publisher sells 10^6 copies of a new science fiction book and 10^3 copies of a new mystery book. How many times as many science fiction books were sold than mystery books? (Example 5)

Test Practice

8. Simplify $\frac{45x^{15}}{9x^{10}}$. (Example 7)

9. Equation Editor Simplify $\frac{a^4c^6}{a^2c}$.

The image shows a digital equation editor interface. At the top, it says '9. Equation Editor Simplify $\frac{a^4c^6}{a^2c}$ '. Below this is a large empty input field. Underneath the input field is a toolbar with navigation arrows and a delete key. Below the toolbar is a keypad with buttons for numbers 1-9, 0, decimal point, and negative sign. It also includes mathematical symbols for addition (+), subtraction (-), multiplication (x), division (÷), less than or equal to (<=), greater than or equal to (>=), and greater than (>). There are also buttons for fractions ($\frac{\square}{\square}$), powers (x^n), parentheses (()), absolute value (||), square root (\sqrt{x}), cube root ($\sqrt[3]{x}$), and pi (π).

Use the power of a property and the power of a product property to simplify expressions with integer exponents

1 - 10

Module 1 Lesson 1.3 page 31

Question 40 – 50:

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Simplify each expression. (Examples 1–4)

1. $(7^2)^3 =$ _____

2. $(8^3)^3 =$ _____

3. $(d^7)^6 =$ _____

4. $(z^7)^3 =$ _____

5. $(2m^5)^6 =$ _____

6. $(7a^5b^6)^4 =$ _____

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7. $(-3w^3z^8)^5 =$ _____

8. $(-5r^4s^{10})^4 =$ _____

Test Practice

9. Which is greater: 1,000 or $(6^2)^3$? Explain.

10. **Multiselect** Select all of the expressions that simplify to the same expression.

- $(x^3y^4)^2$
- $(x^2y)^2$
- $(x^3)^2y^6$
- $x^6(y^4)^2$
- $(x^3)^2(y^2)^4$

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Write very large and very small numbers using scientific notation

1 - 10

Module 1 Lesson 1.5 page 53

Question 50 – 60:

Write each number in standard form. (Examples 1 and 2)

1. $1.6 \times 10^3 =$ _____

2. $1.49 \times 10^{-7} =$ _____

3. A calculator screen shows a number in scientific notation as $8.3E-6$. Write this number in standard form. (Example 3)

4. A calculator screen shows a number in scientific notation as $7E11$. Write this number in standard form. (Example 3)

Write each number in scientific notation. (Examples 4 and 5)

5. $2,204,000,000 =$ _____

6. $0.0000000642 =$ _____

7. A common race is a 5K race, where runners travel 5 kilometers. Is it more appropriate to report the distance as 5 kilometers or 5×10^6 millimeters? Explain your reasoning. (Example 6)

8. The population of Florida was recently recorded as 20,612,439 people. Write an estimation in scientific notation for the population. (Example 7)

Test Practice

9. The diameter of a grain of sand is 0.0024 inch. Write an estimation in scientific notation for the diameter. (Example 7)

10. **Equation Editor** The mass of planet Earth is about 5.98×10^{24} kilograms. When this number is written in standard notation, how many zeros are in the number?

Convert a repeating decimal into a rational number	Learn 1 - 12	Module 2 Lesson 2.1 page 70
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Question 60 – 72:

Learn

Rational Number	Repeating Decimal	Terminating Decimal
$\frac{2}{5}$		
$\frac{5}{6}$		

Write each decimal from the list below in the correct box.

0.64000...

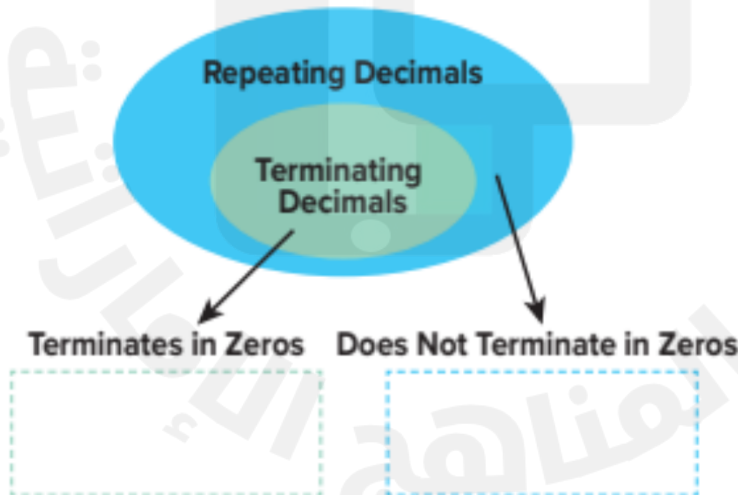
$0.\overline{56}$,

0.4242...

0.84,

0.333...

0.7



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Write each rational number in decimal form. Then determine whether the decimal is a terminating decimal. (Examples 1 and 2)

1. $-\frac{11}{16} =$ _____

2. $\frac{5}{33} =$ _____

3. $4\frac{3}{8} =$ _____

4. $-9\frac{11}{30} =$ _____

Write each decimal as a fraction or mixed number in simplest form. (Examples 3 and 4)

5. $0.\overline{8} =$ _____

6. $-0.\overline{18} =$ _____

7. $-1.\overline{5} =$ _____

8. $4.\overline{45} =$ _____

9. One pint is about $\frac{5}{9}$ liter. Write $\frac{5}{9}$ as a decimal.

10. Phoebe won $\frac{7}{16}$ of the competitions she entered. Write $\frac{7}{16}$ as a decimal.

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Test Practice

11. Write the decimal 5.666... as a mixed number in simplest form.

12. **Multiselect** Select all of the fractions that, when converted, result in a non-terminating decimal.

$-\frac{11}{5}$

$\frac{1}{225}$

$\frac{5}{16}$

$\frac{1}{50}$

$\frac{7}{26}$

$-\frac{3}{32}$

2025

2024

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