تغطية اختبار – الوحدات من 1 إلى 4

تم تحميل هذا الملف من موقع المناهج الإماراتية
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف الثامن ⇦ رياضيات ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف
تاريخ إضافة الملف على موقع المناهج: 2026-11-15 14:13:01
المزيد من مادة رياضيات:	ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس
	إعداد: مدرسة الريم

التواصل الاجتماعي بحسب الصف الثامن					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف الثامن والمادة رياضيات في الفصل الأول	
1	هيكل اختبار
2	أسئلة مراجعة اختيار من متعدد لنهاية الفصل - عرض بوربوينت الجزء الثاني
3	مراجعة وفق الهيكل - الجزء الثاني - أسئلة MCQ
4	هيكل تغطية اختبار نهاية الفصل
5	المتقدم الثامن G8 Adv T1 EOT

تحميل تطبيق المناهج للهواتف الذكية	
تطبيق المناهج على Store App (آبل)	تطبيق المناهج على Play Google (أندرويد)

Al Reem School

Grade 8 General
Term 1 Revision
2026-2027

تربية وتعليم

EOT 1 Exam Coverage

Module 1 - 4

Mathematics/Reveal

Part (1) MCQ 60 Marks. (20 Questions).

Part (2) FQR 40 Marks (6 Questions).

Student Name : Class:

تربية وتعليم

Part (1)

20 questions

(2-4) Marks per question

MCQ

Part (2)

6 questions

(5-8) Marks per question

FRQ

"بالميثـــاق نبلـــغ الآفـــاق"

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
1	Show how the decimal form of a rational number repeats eventually.		(01 – 04)	P. 77

1. Which decimal is equal to $-\frac{11}{16}$?

2. Which decimal is equal to $\frac{5}{33}$?

3. Which decimal number is equal to $4\frac{3}{8}$?

4. Which decimal number is equal to $-9\frac{11}{30}$?

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
2	Use integer exponents to show repeated multiplication of rational numbers.	(01 – 02)	P. 11	

1. Write the expression $(-7) \bullet (-7) \bullet 5 \bullet 5 \bullet 5 \bullet 5$ using exponents.

2. Write the expression $n \cdot n \cdot p \cdot p \cdot r \cdot r \cdot r$ using exponents.

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Part1	Type of Questions	MCQ	Marks per each Question	2-4 marks
3-4	Use the Laws of Exponents to multiply and divide monomials with common bases.		(01 – 08)	P. 23

Simplify the expression.

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

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

3. $3\,m^3\,n^2 \cdot 8\,m\,n^3$ = ...

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

5. $\frac{b^{12}}{b^5}$ = ...

6. $\frac{5^5 \cdot 6^3 \cdot 8^{10}}{5^3 \cdot 6 \cdot 8^9}$ = ...

7. $\frac{45\,x^{15}}{9\,x^{10}}$ =

8. $\frac{a^4\,c^6}{a^2\,c}$ =

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Part1	Type of Questions	MCQ	Marks per each Question	2-4 marks
5	Use the Power of a Power Property and the Power of a Product Property to simplify expressions with integer exponents. Module 1	(01 – 6)	P. 31	

Simplify each expression.

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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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
6	Write very large and very small numbers using scientific notation.		(01 – 06)	P. 53

Write each number in standard form.



Standard Form	Scientific Notation
3,700,000	3.7×10^{6}
0.00062	6.2×10^{-4}



1. $1.6 \times 10^{3} =$

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

3. A calculator screen shows a number in scientific notation as 8E-6. Write this number in standard form.

4. A calculator screen shows a number in scientific notation as 7E11. Write this number in standard form.

Write each number in scientific notation.

5. 2,204,000,000 =

6. 0.0000000642 =

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
7-8	Find square and cube roots . Solve equations involving perfect squares and cubes		(01 – 10)	P. 89

Simplify using rational numbers. If the expression cannot be simplified, explain why.

1. $\sqrt{361} =$ … …

2. $\pm\sqrt{1.96} =$ … …

3. $-\sqrt{\frac{9}{16}} =$ … … .

4. $\sqrt{-441} =$ … …

Simplify using rational numbers.

5. $\sqrt[3]{343} =$

6. $\sqrt[3]{-512} =$

7. $Solve \quad m^2 = 0.04$

8. A basin of a water fountain is cube shaped and has a volume of 91.125 cubic feet. Solve $s^3 = 91.125$ to find the length s of one side of the basin.

9. **What is the value of p**
   $P^3 = -0.027$

10. Moesha has 196 pepper plants that she wants to plant in a square formation. How many pepper plants should she plant in each row?

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Part1	Type of Questions	MCQ	Marks per each Question	2-4 marks
9	Identify irrational numbers and name the set(s) of real numbers to which a given real number belongs.		(01 – 11)	P. 99

Identify whether each number is rational or irrational ..

1. $-\sqrt{10}$
2. $-\frac{3}{11}$
3. $0.\overline{3}$
4. $\sqrt{81}$
5. 0
6. $-\frac{\sqrt{2}}{2}$
7. $\sqrt{7}$
8. $\frac{\sqrt{2}}{\sqrt{2}}$

Name all the sets of numbers to which the real number belongs.

9. $\sqrt[3]{243}$

❶ Rational.
❷ Irrational.
❸ Integer.
❹ Whole.
❺ Natural.

10. $\frac{7}{\sqrt{2}}$

❶ Rational.
❷ Irrational.
❸ Integer.
❹ Whole.
❺ Natural.

11. $-\frac{7}{1}$

❶ Rational.
❷ Irrational.
❸ Integer.
❹ Whole.
❺ Natural.

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
10	Solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms.	(01-04)	P.149	

Solve each equation. Check your solution.

1. $-g + 2(3 + g) = -4(g + 1)$

2. $-8 - x = -3(2x - 4) + 3x$

3. $0.6(4 - 2x) = 20.5(3x + 10)$

4. $12 - (4y + 8) = 0.5(8y - 16)$

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
11	Write and solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms.		Example 1 Example 2	P.152 P.153

Example 1 Write and Solve Multi-Step Equations

Mrs. Hill is designing a rectangular vegetable garden for her backyard. The width of the garden is $11\frac{1}{2}$ feet shorter than twice its length.

If the perimeter of the garden is 37 feet, what is the length of the garden? Write and solve an equation. Check your solution.

Example 2 Write and Solve Multi-Step Equations

Mr. Murphy's class of 20 students is going on a field trip to the science center. They will also watch the 3-D movie. Mrs. Todd's class of 15 students is going on a field trip to the art museum and will take the audio tour. Admission to the art museum is 2.5 times that of the science center's entry fee, as shown in the table.

If the total cost is the same at both the science center and the art museum, what is the entry fee per student to the science center? Check your solution.

Science Center	Art Museum
Entry fee: $\$x$ per student	Admission: $\$2.5x$ per student
3-D movie: \$2.50 per student	Audio Tour: \$1 per student

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
11	**Write and solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms.**	(01-02)	P.157	

1. Mr. Reed is drawing a blueprint of a rectangular patio. The width of the patio is $40\frac{3}{4}$ feet shorter than twice its length. The perimeter of the patio is $86\frac{1}{2}$ feet.
What is the length of the patio

2. Yearbook Club is going to an amusement park, and each of their 12 members will pay for admission and will also help pay for parking. The Robotics Club is going to à waterpark, and each of their 14 members will pay for admission and will also purchase a meal ticket. Admission to the amusement park is 15 times that of the waterpark's admission, as shown in the table. If the total cost is the same at both the amusement park and the waterpark, What is the admission per student to the waterpark?

Amusement Park	Waterpark Admission:
$1.5x per student	Admission: $x per student
Parking: $2 per student	Meal Ticket: $10.50 per student

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
12-13	Identify the number of solutions of a linear equation in one variable by simplifying each side and comparing coefficients and constants.	(01-06) Learn		P.167

Determine whether the equation has one solution, no solution, or infinitely many solutions.

1. $4(x-8)+12=2(2x-9)$

2. $3(2k-5)=6(k-4)+9$

3. $-4y-3=\frac{1}{3}(12y-9)$

4. $6(3-5w)=5(4-2w)-20w$

What numbers would complete the equation so that it has infinitely many solution?

5. $2x-7(x+10)=\boxed{?}x-\boxed{?}$

6. $12x-x+8+3x=\boxed{?}x+\boxed{?}$

	No Solution	One Solution	Infinite Solutions
Symbols	$a=b$	$x=a$	$a=a$
Examples	$3x+4=3x$ $4=0$ Since $4\neq 0$, there is no solution.	$2x=20$ $x=10$ Since $x=10$, there is one solution.	$4x+2=4x+2$ $2=2$ Since $2=2$, all of the values of x are solutions.

Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
14	**Write linear equations in one variable with rational coefficients and use the properties of equality to solve them.**	(01-04)	P.143	

1. Marko has 45 comic books in his collection, and Tamara has 61 comic books. Marko buys 4 new comic books each month and Tamara buys 2 comic books each month. After how many months will Marko and Tamara have the same number of comic books?

2. A fish tank has 150 gallons of water and is being drained at a rate of $\frac{1}{2}$ gallon each second. A second fish tank has 120 gallons of water and is being filled at a rate of $\frac{1}{4}$ gallon each second. After how many seconds will the two fish tanks have the same amount of water?

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
14	**Write linear equations in one variable with rational coefficients and use the properties of equality to solve them.**	(01-04)	P.143	

3. Shipping Company A charges $14 plus $2.25 a pound to ship overnight packages. Shipping Company B charges $20 plus $1.50 a pound to ship an overnight package. For what weight is the charge the same for the two companies?

4. A bicycle rental company charges a $20 fee plus $5.50 per hour to rent a bicycle. Another bicycle rental company charges a $15 fee plus $6.50 per hour to rent a bicycle. For what number of hours is the cost for the rental the same?

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
15	Graph and compare proportional relationships using words, equations, and tables and interpret the unit rate as the slope of the line.	(01 - 02)		P. 189

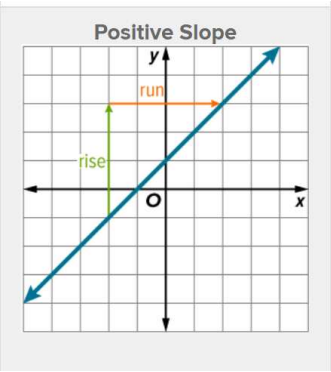
1.The graph shows the amount of book sales over several days. Find and interpret the slope. Then find the unit rate and compare it to the slope.

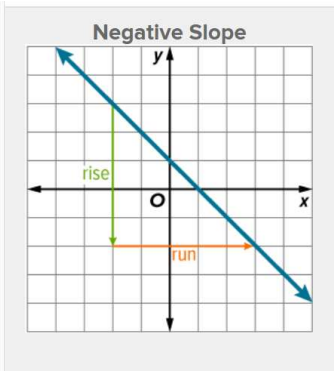


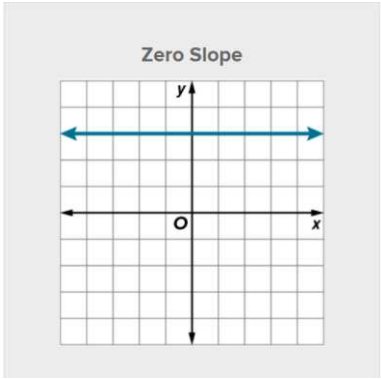
2. The cost y of renting a snowmobile for x hours is a proportional relationship. This can be represented by the equation y = 33.75x. Graph the equation. Then find and interpret the slope.

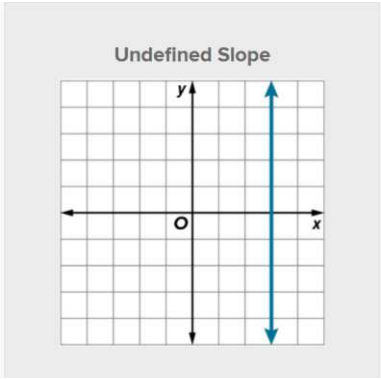


Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
16-17	Identify the slope of a line and interpret it as the rate of change within the context of the problem.		(01 – 06) Learn	P. 203

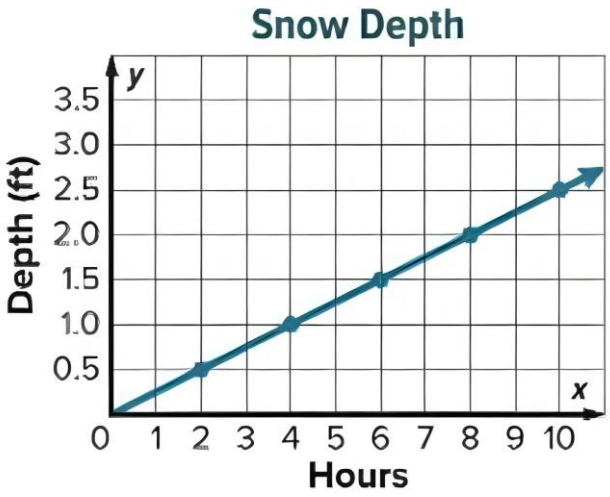




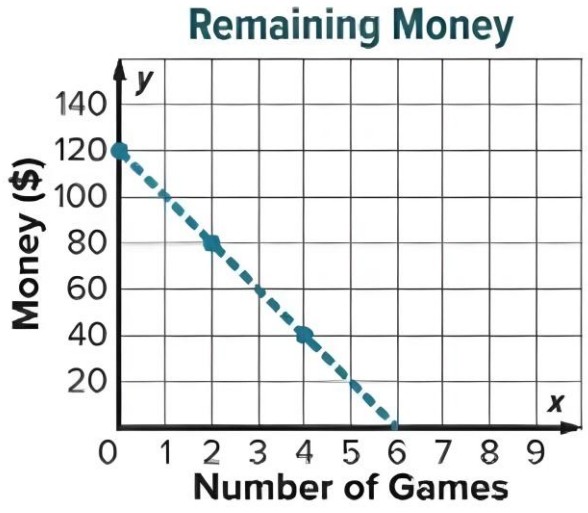




1.The graph shows the depth in feet of snow after each two-hour period during a snow storm .
Find the slope of the line.



2. The graph shows the amount of money left after buying video games. Find the slope of the line



Part 2	Type of Questions	MCQ	Marks per each Question	2-4 marks
16	Identify the slope of a line and interpret it as the rate of change within the context of the problem.		(01 – 06)	P. 203

3. The points given in the table lie on a line.
Find the slope of the line

x	−1	2	5	8
y	3	−1	−5	−9

Find the slope of the line that passes the points .

4 . M(3 , 5) and N(2, 6).

5 . G(-3 , 2) and H(7, 2).

6. E(6 , 8) and F(6 , -2).

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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
18	Write equations of the form y = mx + b when given a table, graph, or verbal description	(01-06)		P.235

Identify the slope and the y-intercept of the graph of each equation

1. $y = \frac{1}{2}x - 5$

2. $y = 3x - 1$

Write the equation of the line in slope –intercept form

3. slope $= -\frac{1}{3}$, y-intercept $= 4$

4. slope $= \frac{3}{2}$, y-intercept $= -3$

5. slope $= 4$, y-intercept $= -2$

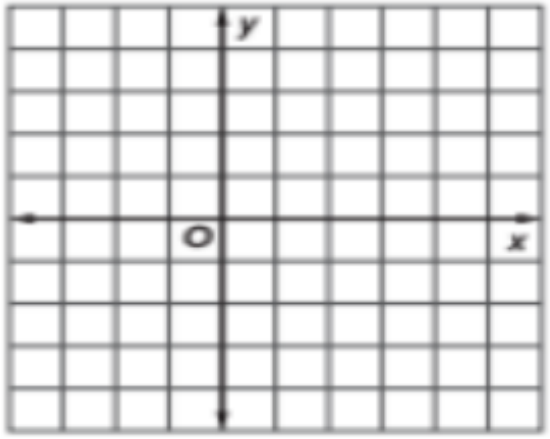
6. slope $= -1$, y-intercept $= 6$

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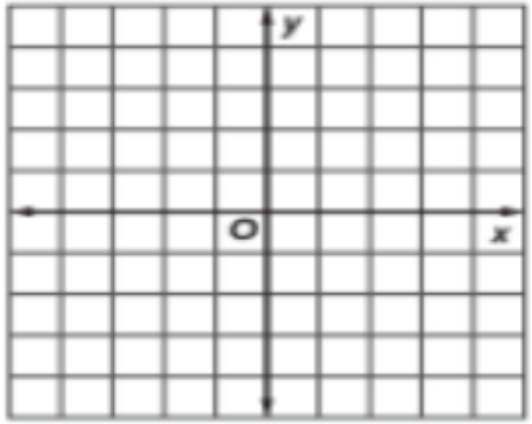
Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
19	Interpret the slope and y-intercept of a line from an equation of the form y = mx + b in order to graph the line on the coordinate plane	(01-06)	P.245	

Graph each equation using the slope and y-intercept

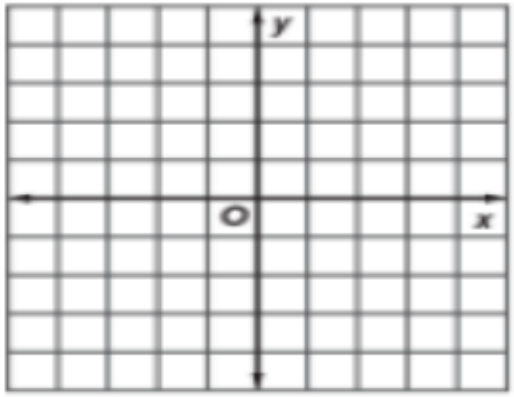
1. $y = \frac{3}{5}x - 3$



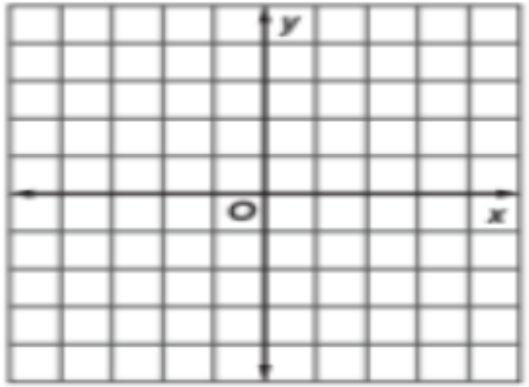
2. $y = -\frac{2}{3}x - 2$



5. $y = -3$



6. $x = 2$



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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
19	Interpret the slope and y-intercept of a line from an equation of the form y = mx + b in order to graph the line on the coordinate plane	(01-06)	P.245	

3. The equation $y = \frac{1}{5}x + 3.5$ can be used to find the amount of accumulated snow y in inches x hours after 5 P.M. on a certain day. Graph this equation. (Example 2)



4. Alliyah's gift card balance can be represented by the equation $y = -5x + 50$, where y represents the gift card balance after x number of days. Graph this equation. (Example 2)



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Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
20	Use rational approximations to compare and order real numbers, including irrational numbers. Module 2	(01 – 7)	P. 121	

Complete each statement using (<,=, or >). Then graph the numbers on the number line.

1. $\sqrt{11}$ _____ $3\frac{2}{3}$



2. $\sqrt{3}$ _____ $\frac{\sqrt{10}}{2}$



3. $-\pi^2$ _____ $-\sqrt{93}$

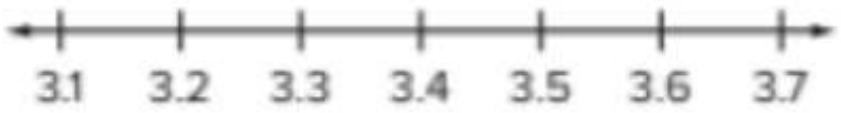


4. $-\sqrt{12}$ _____ -320%



Part 1	Type of Questions	MCQ	Marks per each Question	2-4 marks
20	Use rational approximations to compare and order real numbers, including irrational numbers.		(5 – 7)	P. 121

5. Order the set $\left\{3\frac{1}{2}, \frac{10}{3}, \pi, \sqrt{13}\right\}$. from least to greatest. Then graph the set on the number line.



6. The table shows the foul-shot statistics for three players in a recent basketball game. **Which player had the greatest foul-shot statistic**

Player	Foul-Shot Statistic
1	$\frac{7}{9}$
2	72%
3	8 out of 10

7. Select the symbol that makes the sentence true. (< , = or >)

$\sqrt{27}$ ..... $\frac{\sqrt{95}}{2}$

Part 2	Type of Questions	FQR	Marks per each Question	5-8 marks
1	Use the Zero Exponent Rule and the Quotient of Powers Property to simplify expressions with zero and negative integer exponents .	(03 – 10)		P. 41

Express each using a positive exponent.

3. 8^{-3} = ...

4. y^{-9} = ...

Express each fraction using a negative exponent.

5. $\frac{1}{d^6}$ = ...

6. $\frac{1}{10^5}$ = ...

Simplify each expression.

7. $9^3 \cdot 9^{-6}$ = ...

8. $y^{-9} \cdot y^3$ = ...

9. $\frac{x^{-8}}{x^{-12}}$ = ...

10. $\frac{d^{-12}}{d^{-2}}$ = ...

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Part 2	Type of Questions	FQR	Marks per each Question	5-8 marks
2	Use integer exponents to show repeated multiplication of rational numbers.	(05 – 09)	P. 11	

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

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

7. Compare: (< or = or >):

$(-3)^4$ ... ... $(-4)^3$

8. Ascientist estimates that after a certain amount of time .there would be $2^5 \cdot 3^3 \cdot 10^5$ bacteria In a Khalid 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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Part 2	Type of Questions	FQR	Marks per each Question	5-8 marks
3	Estimate irrational numbers by approximating their locations on a number line or by truncating their decimal expansions .	(01 – 08)	P. 109	

Estimate each square root or cube root to the nearest integer

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.

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

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

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

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

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Part 1	Type of Questions	FQR	Marks per each Question	5-8 marks
4	Use the properties of equality to solve equations with variables on each side that have rational coefficients. Module 3	(01 – 08)	P. 135	

Solve each equation. Check your solution.

1. $-2a - 9 = 6a + 15$

2. $14 + 3n = 5n - 6$

3. $\frac{1}{2}x - 5 = 10 - \frac{3}{4}x$

4. $\frac{2}{3}y + 1 = \frac{1}{6}y + 8$

5. $5.4p + 13.1 = -2.6p + 3.5$

6. $0.15w + 0.35 = 0.22w - 0.14$

7. Twelve more than seven times a number equals the number less six. Solve the equation $7x + 12 = x - 6$ to find the number, x.

8. Solve th$3x - 15 = 17 - x$

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Part 2	Type of Questions	FQR	Marks per each Question	5-8 marks
5	Write equations of the form y = mx + b when given a table, graph, or verbal description	(01-07)		P.235

Identify the slope and the y-intercept of the graph of each equation

1. $y = \frac{1}{2}x - 5$

2. $y = 3x - 1$

Write the equation of the line in slope –intercept form

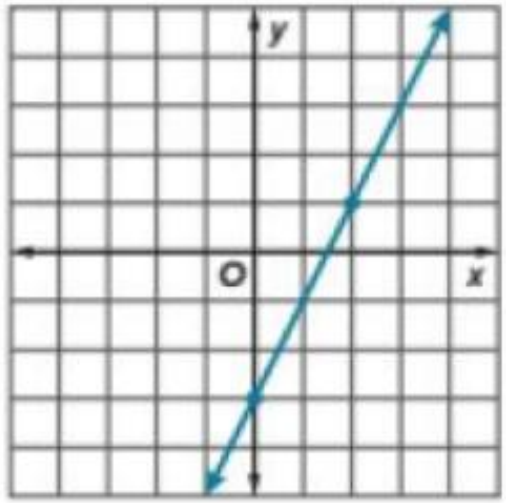
3. slope $= -\frac{1}{3}$, y-intercept $= 4$

4. slope $= \frac{3}{2}$, y-intercept $= -3$

5. slope $= 4$, y-intercept $= -2$

6. slope $= -1$, y-intercept $= 6$

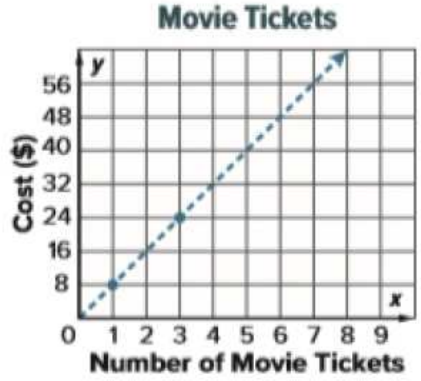
7. Write an equation in slope-intercept form for the graph shown. (Example 3)



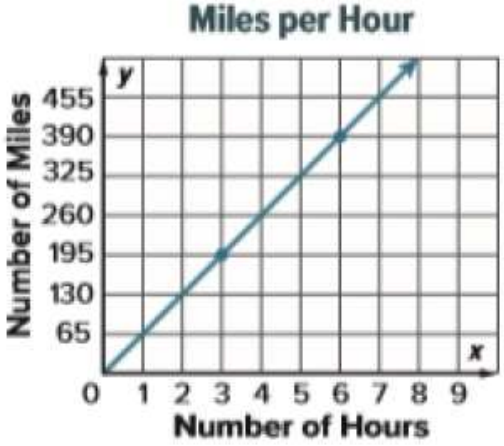
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Part 2	Type of Questions	FQR	Marks per each Question	5-8 marks
6	Derive the equation y = mx from the slope formulaand use direct variation equations to represent andsolve real-world and mathematical problems	(01-04) Learn	P.223	

1. The cost y of movie tickets varies directly with the number of tickets x as shown in the graph. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning.



2. The number of miles y varies directly with the number of hours x as shown in the graph. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning.



Part 2	Type of Questions	FQR	Marks per each Question	5-8 marks
6	Derive the equation y = mx from the slope formulaand use direct variation equations to represent andsolve real-world and mathematical problems	(01-04) Learn		P.223

3. The cost of paper varies directly with the number of reams bought. Suppose two reams cost $5.10. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning.

4. The amount of flour needed for a recipe varies directly with the number of servings planned. Three servings require $4\frac{1}{2}$ cups of flour. Write a direct variation equation to represent this relationship. Then identify the constant of