تمارين تدريبية متنوعة في منهاج ريفيل





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 14:15:15

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

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	أوراق عمل مراجعة اختبار – منهاج ريفيل
2	الاختبار الكتابي لنهاية الفصل
3	تغطية اختبار – الوحدات من 1 إلى 4
4	هيكل اختبار
5	أسئلة مراجعة اختيار من متعدد لنهاية الفصل - عرض بوربوينت الجزء الثاني

تحميل تطبيق المناهج للهواتف الذكية

تطبيق المناهج على App Store (آبل)	تطبيق المناهج على Play Google (أندرويد)

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Practice

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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)

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

Test Practice

8. 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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Practice

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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)

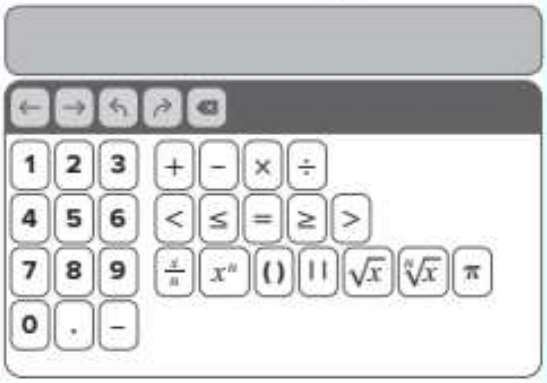
6. Simplify $\frac{5^5 \cdot 6^3 \cdot 8^{10}}{5^3 \cdot 6 \cdot 8^9}$. (Example 6)

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



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Practice

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

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

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

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

Test Practice

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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Practice

Go Online You can complete your homework online.

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 = _____

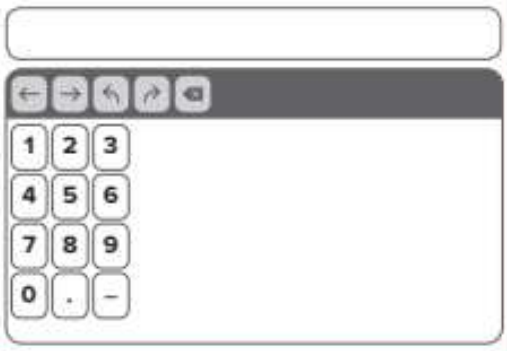
7. A common race is a 5K race, where runners travel 5 kilometers. Is it more appropriate to report the distance as 5 kilometers or 5×10^6 millimeters? Explain your reasoning. (Example 6)

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?



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Practice

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1. There are about 3×10^{11} stars in our galaxy and about 100 billion galaxies in the observable universe. Suppose every galaxy has as many stars as ours. How many stars are in the observable universe? Write in scientific notation. (Example 1)

2. Humpback whales are known to weigh as much as 80,000 pounds. The tiny krill they eat weigh only 2.1875×10^{-3} pound. About how many times greater is the weight of a humpback whale? (Example 2)

Evaluate. Express each result in scientific notation. (Example 3)

3. $(1.28 \times 10^5) + (1.13 \times 10^3) =$

_____

4. $(7.26 \times 10^6) - (1.3 \times 10^4) =$

_____

Test Practice

5. The speed of light is about 1.86×10^5 miles per second. The star Sirius is about 5.062×10^{13} miles from Earth. About how many seconds does it take light to travel from Sirius to Earth? Write in scientific notation, rounded to the nearest hundredth.

6. Table Item The table shows the amount of money raised by each region. The four regions raised a total of $\$(5.38 \times 10^4)$. How much did the West raise?

Region	Amount Raised ($)
East	1.46×10^4
North	2.38×10^4
South	6.75×10^3
West	

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Practice

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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.

- ☐ $-\frac{11}{5}$
- ☐ $\frac{1}{50}$
- ☐ $\frac{1}{225}$
- ☐ $\frac{7}{26}$
- ☐ $\frac{5}{16}$
- ☐ $-\frac{3}{32}$

Name _____ Period _____ Date _____

Practice

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Name _____ Period _____ Date _____

Practice

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Simplify using rational numbers. If the expression cannot be simplified, explain why. (Examples 1–4)

1. $\sqrt{361} =$ _____

2. $\pm\sqrt{1.96} =$ _____

3. $-\sqrt{\frac{9}{16}} =$ _____

4. $\sqrt{-441} =$ _____

5. Solve $m^2 = 0.04$. (Example 5) _____

Simplify using rational numbers. (Examples 6 and 7)

6. $\sqrt[3]{343} =$ _____

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

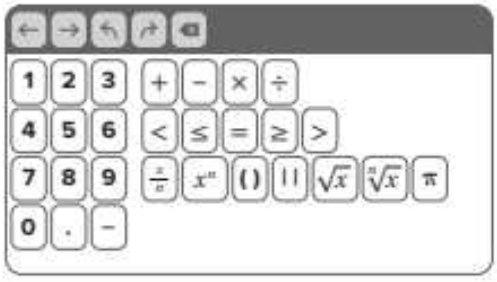
8. A basin of a water fountain is cube shaped and has a volume of 91.125 cubic feet. Solve $s^3 = 91.125$ to find the length s of one side of the basin. (Example 8)

Test Practice

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

10. Equation Editor What is the value of p in the equation shown?

$p^3 = -0.027$



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Practice

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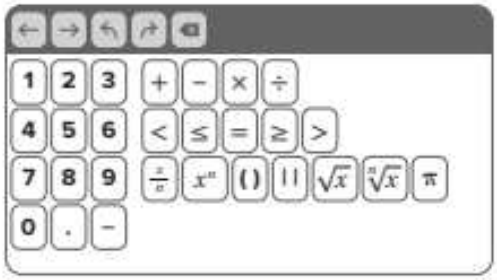
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Practice

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Identify whether each number is *rational* or *irrational*. (Example 1)

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

Select all the sets of numbers to which each real number belongs. (Examples 2–4)

9. $\sqrt[3]{343}$

- (A) Rational
- (B) Irrational
- (C) Integer
- (D) Whole
- (E) Natural

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

- (A) Rational
- (B) Irrational
- (C) Integer
- (D) Whole
- (E) Natural

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

- (A) Rational
- (B) Irrational
- (C) Integer
- (D) Whole
- (E) Natural

Determine whether each statement is *true* or *false*. If the statement is *true*, explain your reasoning. If the statement is *false*, provide a counterexample. (Examples 5 and 6)

12. A number cannot be irrational and an integer.

13. All integers are rational.

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Practice

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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. $\sqrt{62} \approx$ _____

9. 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)

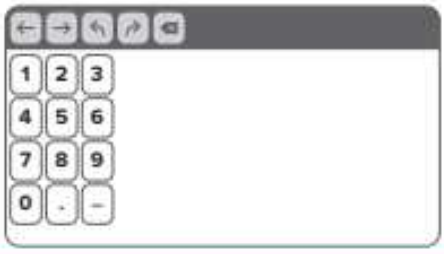
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Test Practice

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.

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

$\sqrt{489}$



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Practice

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Write and solve an equation for each exercise. Check your solution.
(Examples 1 and 2)

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?

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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Test Practice

5. **Open Response** Deanna and Lulu are playing games at the arcade. Deanna starts with $15, and the machine she is playing costs $0.75 per game. Lulu starts with $13, and her machine costs $0.50 per game. After how many games will the two friends have the same amount of money remaining? Let g represent the number of games.

Equation: _____

Number of Games: _____

Name _____ Period _____ Date _____

Practice

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Solve each equation. Check your solution. (Examples 1–3)

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

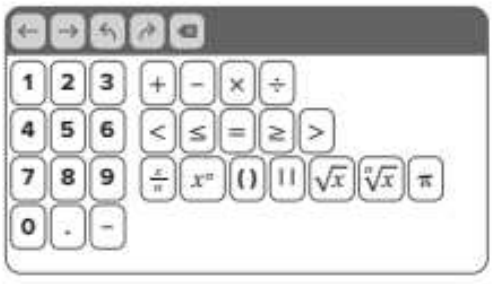
5. $\frac{1}{2}(-4 + 6n) = \frac{1}{3}n + \frac{2}{3}(n + 9)$

6. $\frac{1}{5}(5x - 5) + 3x = -9\left(\frac{1}{3}x + 4\right)$

Test Practice

7. Equation Editor Solve the equation shown for q.

$2\left(\frac{1}{2}q + 1\right) = -3(2q - 1) + 8q + 4$



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Practice

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Solve each equation. Determine whether the equation has one solution, no solution, or infinitely many solutions. (Examples 1 and 2)

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

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

3. $-4y - 3 = \frac{1}{3}(12y - 9) - 8y$

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

Complete each equation so that it has infinitely many solutions. (Example 3)

5. $2x - 7(x + 10) = \square x - \square$

6. $12x - x + 8 + 3x = \square x + \square$

Complete each equation so that it has no solution. (Example 4)

7. $-15x + 4x + 2 - x = \square x + \square$

8. $9(x - 4) - 5x = \square x - \square$

Test Practice

9. Multiple Choice Which of the following explains why $\frac{2}{3}(x + 3) = \frac{2}{3}(x - 6)$ has no solution?

(A) The coefficients are different, and the constants are different.

(B) The coefficients are the same, and the constants are the same.

(C) The coefficients are different, and the constants are the same.

(D) The coefficients are the same, and the constants are different.

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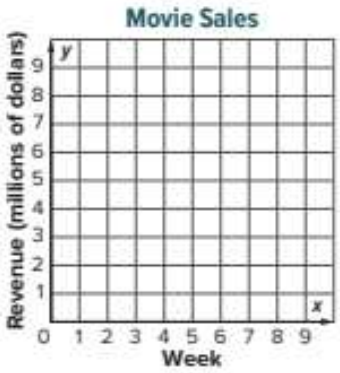
1. The graph shows the amount of book sales over several days. Find and interpret the slope. Then find the unit rate and compare it to the slope. (Example 1)



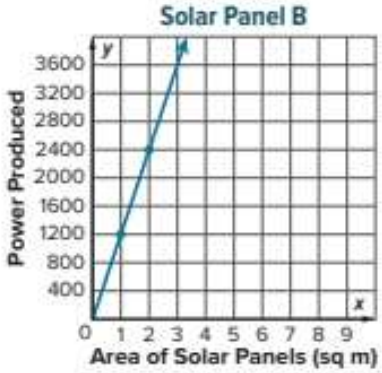
2. The cost y of renting a snowmobile for x hours is a proportional relationship. This can be represented by the equation $y = 33.75x$. Graph the equation. Then find and interpret the slope. (Example 2)



3. By the end of its fourth week, a movie had grossed $9.2 million. Assume the revenue y in millions of dollars is proportional to the week x. Graph this relationship on the coordinate plane. Then find and interpret the slope. (Example 3)



4. The amount of power y solar panel A can produce with an area of x square meters can be represented by the equation $y = 1{,}020x$. The amount of power a solar panel B can produce is shown on the graph. Which solar panel can produce more power? Explain. (Example 4)



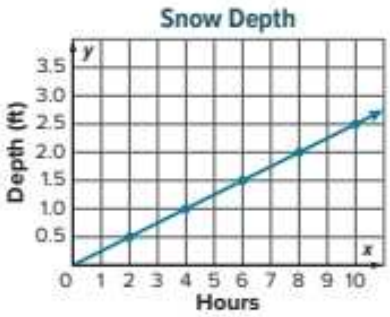
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Practice

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



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



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

x	−1	2	5	8
y	3	−1	−5	−9

Find the slope of the line that passes through each pair of points. (Examples 4–6)

4. $M(3, 5), N(2, 6)$ **5.** $G(-3, 2), H(7, 2)$ **6.** $E(6, 8), F(6, -2)$

Test Practice

7. Multiple Choice The points given in each table lie on lines. Which table, when graphed, would show a negative slope?

Ⓐ

x	−2	3	8	13
y	−2	−1	0	1

Ⓒ

x	3	5	6	8
y	8	0	−4	−12

Ⓑ

x	−1	1	3	5
y	−2	0	2	4

Ⓓ

x	−13	−9	−5	−1
y	−4	−2	0	2

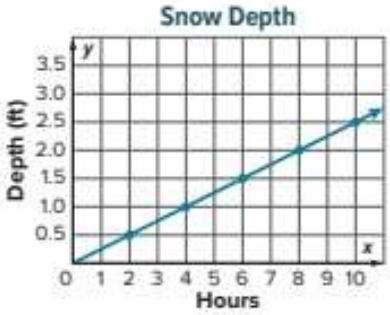
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Ⓑ

x	−1	1	3	5
y	−2	0	2	4

Ⓓ

x	−13	−9	−5	−1
y	−4	−2	0	2

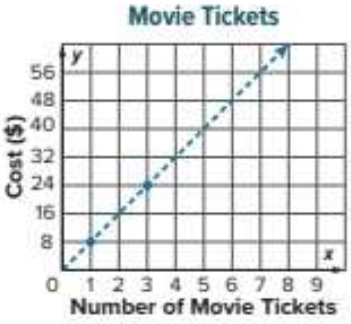
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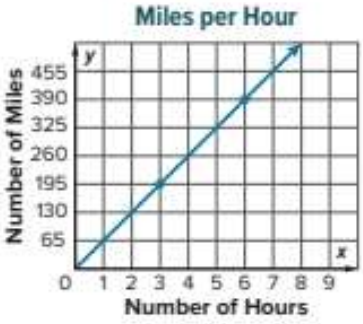
Practice

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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. (Example 1)



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. (Example 1)



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. (Example 2)

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 variation and interpret its meaning. (Example 2)

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Test Practice

5. Open Response The distance a bus travels varies directly with time as shown in the table. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning. (Example 3)

Time (h), x	Distance (mi), y
1.5	93.75
3	187.5
4.5	281.25
6	375

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Practice

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Identify the slope and *y*-intercept of the graph of each equation. (Example 1)

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

2. $y = 3x - 1$

Write the equation of a line in slope-intercept form with each slope and *y*-intercept. (Example 2)

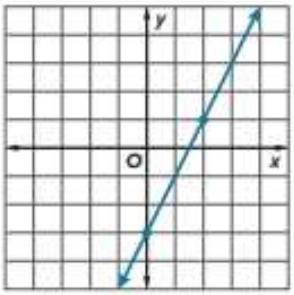
3. slope $= -\frac{1}{3}$, *y*-intercept $= 4$

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)



8. The Augello family is driving from Columbus to St. Louis at a constant rate of 65 miles per hour. The distance between the two cities is 420 miles. Write an equation in slope-intercept form to represent the distance *y* in miles remaining after driving *x* hours. (Example 4)

Test Practice

9. The table shows the costs for art show participants, including the $30 registration fee. Write an equation in slope-intercept form that represents the data in the table. (Example 5)

Number of Pieces of Art	Cost ($)
0	30
2	90
4	150
6	210
8	270

10. Multiselect Select all of the statements that are true about the equation $y = -\frac{3}{5}x + 8$.

- ☐ The slope of the line is negative.
- ☐ The slope of the line is 8.
- ☐ The *y*-intercept of the line is 8.
- ☐ The *y*-intercept of the line is $-\frac{3}{5}$.
- ☐ The slope of the line is $-\frac{3}{5}$.

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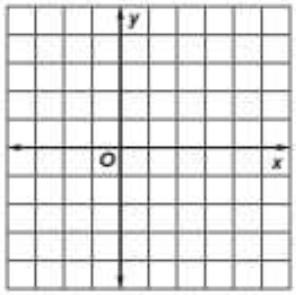
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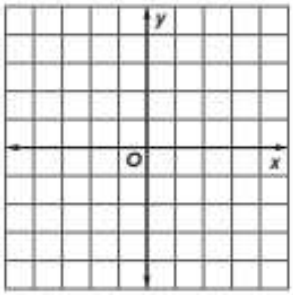
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Graph each equation using the slope and *y*-intercept. (Example 1)

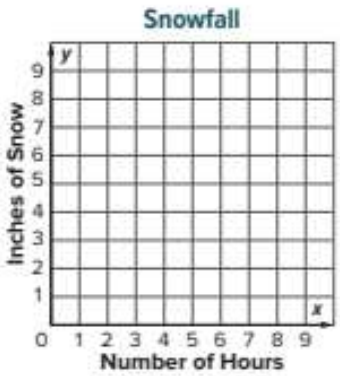
1. $y = \frac{3}{5}x - 3$



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



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)

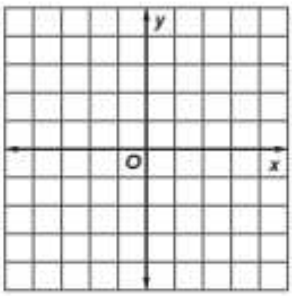


4. Alliyah's gift card balance can be represented by the equation $y = -5x + 50$, where y represents the gift card balance after x number of days. Graph this equation. (Example 2)

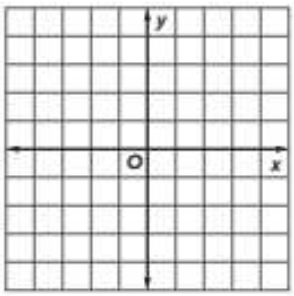


Graph each equation. (Examples 3 and 4)

5. $y = -3$



6. $x = 2$



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Practice

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Simplify each expression. (Example 1)

1. $46^0 =$ _____

2. w^0, where $w \neq 0$

_____

Express each using a positive exponent. (Example 2)

3. $8^{-4} =$ _____

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

Express each fraction using a negative exponent. (Example 3)

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

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

Simplify each expression. (Examples 4 and 5)

7. $9^4 \cdot 9^{-6} =$ _____

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

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

10. $\frac{d^{-13}}{d^{-2}} =$ _____

Test Practice

11. Simplify $8^{-7} \cdot 8^7 \cdot 10^4 \cdot 10^{-4}$.

12. Multiselect Select all of the expressions that are simplified.

- ☐ n^4
- ☐ $\frac{1}{n^{-5}}$
- ☐ $n^6 \cdot n^{-8}$
- ☐ $n^7 \cdot p^8$
- ☐ $\frac{1}{n^3}$

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Practice

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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.

- ☐ $-\frac{11}{5}$
- ☐ $\frac{1}{50}$
- ☐ $\frac{1}{225}$
- ☐ $\frac{7}{26}$
- ☐ $\frac{5}{16}$
- ☐ $-\frac{3}{32}$

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Practice

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Identify whether each number is *rational* or *irrational*. (Example 1)

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

Select all the sets of numbers to which each real number belongs. (Examples 2–4)

9. $\sqrt[3]{343}$

- (A) Rational
- (B) Irrational
- (C) Integer
- (D) Whole
- (E) Natural

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

- (A) Rational
- (B) Irrational
- (C) Integer
- (D) Whole
- (E) Natural

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

- (A) Rational
- (B) Irrational
- (C) Integer
- (D) Whole
- (E) Natural

Determine whether each statement is *true* or *false*. If the statement is *true*, explain your reasoning. If the statement is *false*, provide a counterexample. (Examples 5 and 6)

12. A number cannot be irrational and an integer.

13. All integers are rational.

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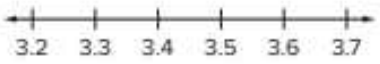
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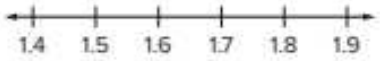
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Complete each statement using <, >, or =. Then graph the numbers on the number line. (Examples 1 and 2)

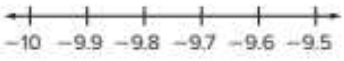
1. $\sqrt{11}$ _____ $3\frac{2}{3}$



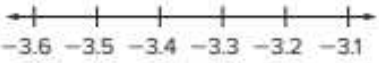
2. $\sqrt{3}$ _____ $\frac{\sqrt{10}}{2}$



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



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



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. (Example 3)



6. The table shows the foul-shot statistics for three players in a recent basketball game. Which player had the greatest foul-shot statistic? (Example 4)

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

Test Practice

7. Multiple Choice Select the symbol that makes the sentence true.

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

Ⓐ <
Ⓑ >
Ⓒ =
Ⓓ ≤

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Practice

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Write and solve an equation for each exercise. Check your solution.
(Examples 1 and 2)

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. The 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 a waterpark, and each of their 14 members will pay for admission and will also purchase a meal ticket. Admission to the amusement park is 1.5 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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Test Practice

3. Open Response Arjun purchased 5 tickets to a play, each with the same price. He was also charged an online service fee of \$3.50 per ticket. Emilia purchased 3 tickets to the same play and paid twice as much for her tickets as Arjun. Emilia was also charged a service fee of \$2.75 per ticket. If they spent the same amount, what is the cost of each of the tickets Arjun purchased? Let t represent the cost of each of Arjun's tickets.

Equation:

Cost of a Ticket:

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Practice

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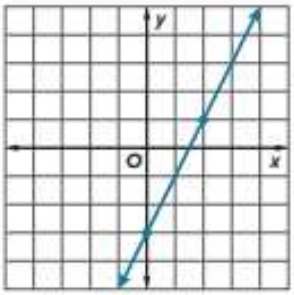
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