

<p>Express $\frac{21}{33}$ as a percent to the nearest tenth of a percent.</p>	<p>Evaluate. $-3x^3 - 2y^2 - z$ when $x = -1$ $y = 2$ $z = -2$</p>	<p>$\frac{9}{16} =$ $\frac{3}{12}$</p>	<p>$16 - 7\frac{9}{11} =$</p>
<p>By what number does $12\frac{1}{8}$ exceed $7\frac{5}{6}$?</p>	<p>What percent of 3000 in is 10 yd?</p>	<p>What must be added to -17.4 to yield -30.418?</p>	<p>Express $.88$ as a fraction in lowest terms.</p>
<p>$233\frac{1}{3}\%$ of what number is 2100?</p>	<p>$6.9 + 11.47 + 9 + \square = 40$</p>	<p>$7\frac{1}{2}\%$ of 6000 =</p>	<p>Translate into math symbols: "Three times the sum of six and twice a number is twelve."</p>
<p>Solve. $7 - 4h > -10 - h$</p>	<p>Solve. $-10 + 6y = 2y + 30$</p>	<p>Simplify. $(-4 - 4) \div (-4) + (-4) \times (-4)$</p>	<p>Find the base of a triangle whose area is 120 sq. ft and altitude is 30 ft.</p>

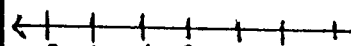
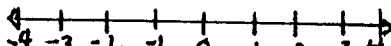
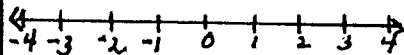
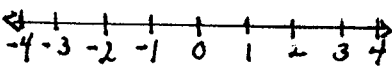
Graph the solution set of each inequality with respect to the given domain.

J - Integers
 $3x - 4 > 5$

W - Whole Numbers
 $x - 2 < -3$

Real Numbers
 $-2x + 1 < -3$

Rationals
 $-x - 4 \geq -6$



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<p>Evaluate</p> $2x - y^2 + 3z$ <p>when $x = -1$ $y = 2$ $z = -3$</p>	<p>Find the lateral surface of a rectangular prism having a length of 9 ft, a width of 18 ft, and a height of 12 ft.</p>	<p>Simplify.</p> $32 - 6 \div -3 - 16 \times -2$	<p>What percent of 40 gal is 200 ft?</p>
<p>-2.4 exceeds -9.419 by what number?</p>	$21.576 = \square \times 8.7$	<p>$383\frac{1}{3}\%$ of what number is 966?</p>	<p>Solve.</p> $\frac{m}{5} + 8 = 3(2+7)$
<p>Solve.</p> $-8d - 4 \leq -12$	$\frac{1}{3}\% \text{ of } 960 =$	<p>Express $\frac{9}{16}$ as a terminating or repeating decimal.</p>	<p>Translate into math symbols: "The quotient when a number is divided by twelve is equal to the number increased by five."</p>
$16\frac{2}{7} - 7\frac{5}{8} =$	<p>Solve.</p> $42 = 6 - \frac{1}{5}h$	<p>Solve for m.</p> $\frac{7}{12} = \frac{d}{5.4}$	<p>Express $3\frac{1}{2}\%$ as a fraction in lowest terms.</p>

Use a $>$, $<$, or $=$ sign to make the following true statements.
If none of these will do so, write "N".

$$\frac{1}{16} \text{ --- } 6\frac{2}{3}\%$$

$$(3)^{-3} \text{ --- } (-3)^{-2}$$

FREE

$$.82\frac{1}{2}\% \text{ --- } .8\bar{2}$$

$$(9)^0 \left(\frac{1}{9}\right)^0 \text{ --- } (8)^0 \left(\frac{1}{8}\right)^0$$

$$\frac{7}{16} \text{ --- } \frac{9}{17}$$

$$0-8 \text{ --- } 0-9$$

What number exceeds -7.46 by -10.893 ?	What is the area of a circle with a radius of 4.9 ft?	How much greater than -4.61 is 10 ?	$-2\frac{1}{4} \times 6\frac{1}{2} \times \frac{12}{39} =$				
Solve. $-34 + 7 = -10 + 4$	Circle the number closest in value to 6 . <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>$\sqrt{30}$</td> <td>$6.\bar{1}$</td> </tr> <tr> <td>5.998</td> <td>5.0009</td> </tr> </tbody> </table>	$\sqrt{30}$	$6.\bar{1}$	5.998	5.0009	Divide three and two thousandths by six hundredths.	$19 - \square = 6\frac{3}{8}$
$\sqrt{30}$	$6.\bar{1}$						
5.998	5.0009						
Simplify. $4^3 - 6 \times 81 - 5^2$	$266\frac{2}{3}\%$ of $1600 =$	What percent of $\frac{3}{5}$ is $2\frac{1}{2}$?	$\frac{1}{3}\%$ of what number is 4800 ?				
Round 37.58421 to the nearest thousandth.	$-7.54 \div \square = 5.8$	Solve. $7 - 4y \leq -8 + y$	Find the percent of decrease from 24 to 4 .				

Use a $>$, $<$, or $=$ sign to make the following true statements.

$200 \text{ gal} \underline{\hspace{1cm}} 700 \text{ qt}$	$720 \text{ yd} \underline{\hspace{1cm}} 2000 \text{ ft}$	$600 \text{ m} \underline{\hspace{1cm}} 6000 \text{ mm}$	$2000 \text{ da} \underline{\hspace{1cm}} 3 \text{ yr}$
$1000 \text{ ft} \underline{\hspace{1cm}} 400 \text{ gal}$	$5 \text{ mi} \underline{\hspace{1cm}} 3000 \text{ ft}$	$42 \text{ dm} \underline{\hspace{1cm}} 4.2 \text{ m}$	$10000 \text{ min} \underline{\hspace{1cm}} 12 \text{ da}$

<p>Solve. $2m - 5 = 17$</p>	$\frac{-2\frac{2}{7}}{\frac{1}{3}} =$	<p>Solve. $16 - 5k < 3(7 - 4)$</p>	$16\frac{1}{6} - \square = 6\frac{3}{4}$
<p>Evaluate $\frac{2}{3}x^2 - y + 2z^2$ when $x = 3$ $y = -2$ $z = -1$</p>	<p>Estimate by rounding. $8\frac{5}{6} \times 13\frac{2}{9}$</p>	<p>What is the percent decrease from 90 to 63?</p>	<p>Place .000084 in scientific notation.</p>
<p>What must be added to -3.4 to yield -10.896?</p>	<p>What percent of $3\frac{1}{3}$ is $16\frac{2}{3}$?</p>	<p>Simplify. $-5 \div -1 + 6 \times 2 - 8^2$</p>	<p>Express $\frac{4}{21}$ as a terminating or repeating decimal.</p>
<p>9.2 is 240% of what number?</p>	<p>Solve. $-\frac{x}{8} + 7 = -14$</p>	$8\frac{1}{3}\% \text{ of } 3\frac{3}{11} =$	<p>Find the area of a parallelogram with an altitude of 8 yd, base of 20 yd, and side of 10 yd.</p>

Use a >, <, or = sign to make the following true statements. If none will do so, write "N."

FREE

$$-\frac{1}{2} \times \frac{1}{3} \quad -\frac{1}{3} \times \frac{1}{2}$$

$$68.5\% \quad \frac{11}{15}$$

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

$$(-2)\left(\frac{1}{3}\right)^2 \quad \left(-2 \cdot \frac{1}{3}\right)^2$$

$$0 \times \left(\frac{1}{2}\right)^2 \quad \left(\frac{1}{8}\right)^2 \times 0$$

$$62\frac{1}{2}\% \quad 62.5\%$$

$\cdot 5\%$ of 400 =	$-2\frac{1}{6} \div (3\frac{1}{4} \times \frac{3}{7})$	Evaluate $\frac{3a^2 - 2b}{-c}$ $a=2$ $b=-2$ $c=-1$	Solve. $-5y - 6 = y + 24$
Solve $4 - 5x \leq x + 20$	6.3 is $1\frac{1}{2}\%$ of what number?	If .875 of a number is 49, what is the number?	65 is $8\frac{1}{3}\%$ more than what number?
Divide 21.63 by 1.05.	Simplify. $\frac{1}{3}$ of $-15 + 16 \div -2 + 4$	A triangular sail has a base of $13\frac{1}{2}$ ft and an altitude of 16 ft. How many sq yd are in its area?	Order from least to greatest. $\frac{5}{7}$, 80% , $.8\frac{1}{3}$, $\frac{7}{8}$, $.83$ -----
Express $.02$ as a fraction in lowest terms.	$\frac{7}{12} = \frac{1\frac{17}{18}}{18}$	Express $.3\frac{1}{4}$ as a fraction in lowest terms.	$17 - 10\frac{4}{5} =$

Use a $>$, $<$, or $=$ sign to make the following true statements.

4000 sec 400 min $5\frac{1}{2}$ T 12000 lb 450 gal 2000 ft $5\frac{1}{2}$ mi 8500 yd
 5000 da 10 yr 400 oz 25 lb 2000 c 300 qt 1600 in 45 yd

Solve. $4(7-3) = 4 - 6$	Evaluate $-\frac{1}{2}x^2 - \frac{1}{3}y + z^2$ $x=2$ $y=3$ $z=1$	Solve for n : $\frac{.02}{.8} = \frac{n}{16}$	88 is $14\frac{2}{7}\%$ more than what number?
Write in symbols: "Six times the sum of a number and one-third is less than forty."	Express as a mixed number in lowest terms. $2.\overline{32}$	Express $\frac{9}{11}$ as a terminating or repeating decimal.	How much greater than $-3\frac{1}{8}$ is $10\frac{5}{6}$?
30 is 1% of what number?	Solve. $4 - 3y \leq 16 + 2y$	7.41 exceeds -21.1 by what number?	Divide the opposite of 8 by the reciprocal of $-\frac{3}{16}$.
$-16.1 + \square = -3.42$	What percent of $\frac{1}{9}$ is $\frac{1}{3}$?	$112\frac{1}{2}\%$ of a pound equals how many ounces?	The circumference of an oil tank is 55 ft. Find its radius.

Write an original problem for each of the following equations. Use the reverse side if necessary. DO NOT SOLVE.

$$30 \div \frac{5}{6} = 4$$

$$30 \times \frac{5}{6} = a$$

$$3.6 \div .6 = b$$

$$3.6 \times .6 = c$$

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$\frac{1\frac{5}{7}}{6\frac{3}{4}} =$	28 is $12\frac{1}{2}\%$ less than what number?	Find the area of a trapezoid with bases 9ft and 7ft and an altitude of 4ft.	Solve. $-16 - 10p = 30 - 4p$				
From -4.6 take -9.189.	FREE	Evaluate $\frac{-4a^3 - 3b^2}{2c}$ $a = -1$ $b = -2$ $c = 1$	How much greater than -14.61 is -6.135?				
Solve. $4m - 7 < m + 20$	Simplify. $5(81 \div 9) - 36 - -11$	What percent of $4\frac{1}{2}$ is $5\frac{2}{5}$?	$-3\frac{1}{5} \times \frac{7}{12} \div 2\frac{1}{3} =$				
Express .27 as a fraction in lowest terms.	Express $\frac{7}{12}$ as a terminating or repeating decimal.	Circle the number closest in value to 10. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">9.8899</td><td style="text-align: center;">10.099</td></tr><tr><td style="text-align: center;">9.$\bar{8}$</td><td style="text-align: center;">10.999</td></tr></table>	9.8899	10.099	9. $\bar{8}$	10.999	$\frac{2}{5}\%$ of 1750 =
9.8899	10.099						
9. $\bar{8}$	10.999						

Use a $>$, $<$, or $=$ sign to make the following true statements.

$\sqrt{16} - \sqrt{9} \quad \underline{\hspace{1cm}} \quad \sqrt{16} - 9$

$\sqrt[3]{64} \quad \underline{\hspace{1cm}} \quad \sqrt{64}$

$\sqrt{25} \times \sqrt{4} \quad \underline{\hspace{1cm}} \quad \sqrt{25 \times 4}$

$\sqrt[3]{1000} \quad \underline{\hspace{1cm}} \quad \sqrt{144}$

$(-\frac{1}{4})^0 (-\frac{1}{5})^1 \quad \underline{\hspace{1cm}} \quad (\frac{1}{2})^0 (-\frac{1}{3})^1$

$0 \div -6 \quad \underline{\hspace{1cm}} \quad 0 \div -7$

$(-3)^{-2} (-4)^2 \quad \underline{\hspace{1cm}} \quad (-4)^{-2} (-3)^2$

$3\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{1}{3}$

Express $\frac{17}{6}$ as a terminating or repeating decimal.	Simplify. $-4 \div -4 + -4 \times -4 - -4$	$-3\frac{1}{8} \div 4 \div (-\frac{5}{4}) =$	What is the reciprocal of $-7\frac{1}{3}$?
Solve. $\frac{1}{3}(4-3) = -4-6$	Express .77 as a fraction in lowest terms.	What percent of 3.25 is .75 to the nearest tenth of a percent?	By what number does $17\frac{4}{9}$ exceed $6\frac{2}{3}$?
Evaluate. $(-3x)^2 - 4xy^3 - z$ when $x = -2$ $y = -3$ $z = -4$	$211\frac{1}{9}\%$ of 7290 =	Solve. $4-12 \leq 7-6$	$\frac{2}{7}\%$ of what number is 2000?
98 is $16\frac{2}{3}\%$ more than what number?	How much greater than -4.256 is $+12.1$?	What is the area of a drum top if its diameter is $2\frac{1}{2}$ ft?	Express $\frac{1}{24}$ as a terminating or repeating decimal.

Use a $>$, $<$, or $=$ sign to make the following true statements.

$11 \underline{\quad} (11)^0$

$\sqrt{64} + \sqrt{36} \underline{\quad} \sqrt{64+36}$

$.01001 \underline{\quad} .01$

$\sqrt{1000} \underline{\quad} 35$

$6^{-2} \underline{\quad} (-6)^{-1}$

$\sqrt{64} \times \sqrt{36} \underline{\quad} \sqrt{64 \times 36}$

$.9\frac{2}{3} \underline{\quad} .91\frac{2}{3}$

$-\sqrt{196} \underline{\quad} \sqrt[3]{-64}$

<p>Evaluate</p> $\frac{-7x - 9y}{z^2}$ <p>$x = -4$ $y = 3$ $z = -2$</p>	$-\frac{5}{8} \times \left(-\frac{3}{25}\right) \times \left(-\frac{1}{9}\right)$	$90.6 \times \square = 43.488$	<p>314 $\frac{2}{7}$% of what number is 8866?</p>
<p>Solve.</p> $5.014 = 85.671$	<p>Write a number between .2 and .2.</p>	<p>Translate into symbols: "Twice the sum of 6 and a number is three times the product of the number and six."</p>	<p>Simplify.</p> $2(3)^{-1} \times 3(5)^{-1}$
<p>Express $\frac{12}{37}$ as a terminating or repeating decimal.</p>	<p>What percent of 120 gal is 1200 ft?</p>	<p>66 is $8\frac{1}{3}$% less than what number?</p>	<p>Find the result when the reciprocal of $-\frac{1}{9}$ is decreased by the opposite of $4\frac{1}{2}$.</p>
<p>$306\frac{1}{4}$% of 960 =</p>	<p>Simplify.</p> $-7 - (-7 - 7) \times (-7)^2$	<p>Solve.</p> $-5a - 9 + a = \frac{45}{3}$	$13\frac{1}{6} - \square = 6\frac{1}{3}$

Use a >, <, or = sign to make the following true statements.

7.2 cm _____ 0072 m 40 mi _____ 200000 ft
 4200 dm _____ 4.2 km 40 yd _____ 1400 in

FREE

705 gal _____ 7005 ft
 41 $\frac{1}{2}$ qt _____ 82 ft

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 '98

<p>Write $-1.\overline{2}$ as a fraction in lowest terms.</p>	<p>Solve.</p> $\frac{\frac{1}{2}}{\frac{1}{4}} = \frac{4}{25}$	$5\frac{1}{3} \times 1\frac{7}{8} \times 8\frac{3}{4} \times 2\frac{2}{15}$	<p>Evaluate $ab \div 4 + b^2 - 6a$ when $a = -1$ and $b = 4$</p>
$14\frac{5}{8} - \square = -4\frac{7}{12}$	<p>What percent of 10 mi is 10000 yd?</p>	<p>Express $\frac{8}{15}$ as a terminating or repeating decimal.</p>	<p>Write eight millionths in scientific notation.</p>
<p>Solve $6.6 = (11 - 10x)0.3$</p>	<p>Write three irrational numbers.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Solve.</p> $15 = (6x + 9)\frac{1}{3}$	$\frac{1}{5}\% \text{ of } 85.9045 =$
<p>The legs of a right triangle are 28 m and 35 m. What is the area of the triangle?</p>	<p>Express $\frac{134}{333}$ as a terminating or repeating decimal.</p>	<p>Find the lateral area of a cylinder with radius 4 cm and height 11 cm.</p>	<p>What is the result when the reciprocal of -8 is divided by the opposite of $-4\frac{1}{2}$?</p>

Graph the solution set of each inequality over the given domain.

Integers

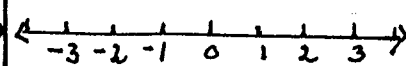
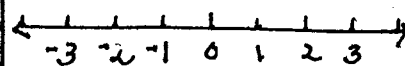
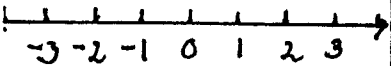
$$-2x - 3 > 1$$

Real Numbers

$$-2x + 3 < -2$$

Rational Numbers

$$7 + 3a > 4$$



God bless you and your family.

Congratulations on completing these exercises. You are on your way to great math adventures! Be sure to thank your teacher.