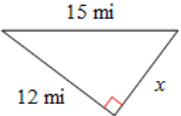


SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
1 Find the coordinates of the midpoint of $\overline{AC}$ if $A$ is at $(-2, -1)$ and $C$ is at $(4, 3)$ .	2 Solve for $x$ . $6x + 68 = -5(2x - 20)$	3 $A, B,$ and $C$ are collinear. $B$ is at $(6, 3)$ and is between $A$ and $C(15, 3)$ on $\overline{AC}$ . Find the coordinates of $A$ so that $AB:BC = 1:3$ .	4 John's wages for 5 hours are \$29.75. How many hours does he work to earn \$23.80?	5 A right triangle has a leg of length $\sqrt{11}$ and hypotenuse of length 6. What is the length of the other leg?	6 A parking garage charges \$5 for the first hour and \$1.50 for each additional 30 minutes. How many hours can you park there for \$23?	7 Find the distance between $A(2, -3)$ and $B(7, 2)$ . Round your answer to the nearest whole number.	
8 Charlie paid \$3.20 in postage. If he used five 32-cent stamps and paid the rest with 20-cent stamps, how many 20-cent stamps did he use?	9 Find the value of $x$ . 	10 Find the distance between $L(-4, -2)$ and $M(-3, 8)$ . Round your answer to the nearest whole number.	11 Solve for $x$ . $7(x + 5) = 4(3x - 5)$	12 $T(-4, 7)$ is the midpoint of $\overline{JR}$ . Find the y-coordinate of $R$ if $J$ is at $(7, 2)$ .	13 $L, K,$ and $J$ are collinear. $K$ is between $L$ and $J$ . Find $LJ$ if $LK = 2x + 3$ , $KJ = 4$ , and $LJ = 4x + 1$ .	14 $K$ is the midpoint of $\overline{PM}$ . $P$ is at $(8, 1)$ and $M$ is at $(-6, 7)$ . What are the coordinates of $K$ ?	
15 $A, B,$ and $C$ are collinear. $B$ is the midpoint of $\overline{AC}$ . Find the value of $x$ if $AB = 3x - 10$ and $AC = 70$ .	16 Make a Pythagorean theorem problem where the length of the missing side is 16.	17 Solve for $x$ . $3(x - 2) = 2x + 11$	18 Find the distance between $(13.6, 4.5)$ and $(-2.7, -3.2)$ . Round your answer to the nearest whole number.	19 $S$ is between $T$ and $R$ on $\overline{TR}$ . Find $TR$ if $TS = 2x + 5$ , $SR = 4$ , and $TR = 7x - 16$ .	20 $A, E,$ and $H$ are collinear. $E$ is between $A(20, 28)$ and $H(20, 14)$ on $\overline{AH}$ . Find the coordinates of $E$ such that $AE:EH = 4:3$ .	21 Find the area of a right triangle that has one leg of length 7 and a hypotenuse of length $\sqrt{85}$ .	
22 $\overline{KR}$ is in the interior of $\angle LKJ$ . $m\angle RKL = 155^\circ$ , $m\angle JKR = x + 22$ , and $m\angle JKL = 2x + 177$ . Find $m\angle JKR$ .	23 $M(10, -7)$ is the midpoint of $\overline{AB}$ . What is the x-coordinate of $B$ if $A$ is at $(-3, -3)$ ?	24 Susie drove 336 miles and used 14 gallons of gas. How many miles per gallon does her car get?	25 The sum of three consecutive numbers is 78. What is the smallest of the three numbers?	26 John ran a five-mile race in 2 hours and 10 minutes. How fast can he run one mile (in minutes)?	27 Jenny has 135 dimes, 35 quarters, and 95 nickels. How many dollars does she have?	28 $\overline{AR}$ is the angle bisector of $\angle QAS$ . Find $m\angle QAR$ if $m\angle QAR = 4x + 16$ and $m\angle RAS = 10x - 2$ .	
29 Solve for $x$ . $2(-2x + 7) = -3(x + 5)$	30 $\overline{ER}$ is in the interior of $\angle DEF$ . Find $m\angle REF$ if $m\angle DER = 64^\circ$ , $m\angle DEF = 48x - 2$ , and $m\angle REF = 15x$ .	<h1>GEOMETRY</h1> <h1>NOVEMBER 2015</h1>				<ul style="list-style-type: none"> <li>Remember that if the answer you get is different from the date... <b>you need to try the problem again!</b></li> <li><b>Do not</b> leave any question blank. If you don't know how to solve it... <b>ask for help!</b></li> <li><b>Show all your work!</b> The process is more important than the answer.</li> </ul>	