1. Order from least to greatest: 0.62, 0.5, 0.57
	1. 0.62, 0.5, 0.57
	2. 0.57, 0.62, 0.5
	3. 0.5, 0.62, 0.57
	4. 0.5, 0.57, 0.62
2. In the number line below, what is the value of *A* – *B*?



* 1. 1
	2. 1 ½
	3. 2
	4. 3 ½

**Question 3 is based on the following information.**



1. Which of the following shows the drill bits arranged in order from least to greatest in size?
	1. Cutter, bevel, classic, core box
	2. Core box, bevel, classic
	3. Bevel, classic, cutter, core box
	4. Core box, classic, bevel, cutter
2. What is the GCF of 24 and 16?
	1. 8
	2. 4
	3. 6
	4. 2
3. Which of the following is equal to *6-4(x+3)*?
	1. 4x+3
	2. 4x-9
	3. -4x+9
	4. -4x-6
4. Solve: 30 + 75 =
	1. 5(3+7)
	2. 10(6+5)
	3. 15(2+5)
	4. 150(5+2)
5. Absolute error is the absolute value of the difference between an actual value and its measurement. A deli scale gives a measurement of 25 ounces for a cut of meat that actually weighs only 23.5 ounces. What is the absolute error, in ounces, of the deli scale in this instance?
	1. 1.5
	2. 23.5
	3. 25
	4. 48.5
6. Use absolute value to find the solution: |-6|-|-7|
	1. -1
	2. 1
	3. 42
	4. 2
7. What is the absolute value of |-125|?
	1. |125|
	2. |-125|
	3. 125
	4. -125
8. Which of the following is equivalent to x2 -25?
	1. x(x-25)
	2. (x-5)2
	3. (x+5)(x+5)
	4. (x-25)2
9. The cube pictured below measures 6 inches on each side. You can find the volume of the cube by multiplying length x width x height. Which of the following expressions represents the volume of the cube, in cubic inches?
	1. 61
	2. 62
	3. 63
	4. 66
10. Multiply 7c2(a2+5b+7c2)
	1. 7a2c2 + 35bc2 + 49c4
	2. 7(ac)2 + 35(bc)2 +49c4
	3. 7a2 + 35b + 49c4
	4. a2+5b+14c
11. What values would make the expression $\frac{70v^{2}}{100v}$ undefined?
	1. 100
	2. $\frac{1}{100}$
	3. -100
	4. 0
12. For what values of *a* is the expression $\frac{a(4a-16a)}{a x \left|a\right|+ a^{2}} $ undefined?
	1. a = 4
	2. a $\leq $ 0
	3. a = 16
	4. a $\geq $ 0
13. What values would make the expression $\frac{m+7}{m^{2}+4m-21}$ undefined?
	1. 7 and -3
	2. 7 and 3
	3. -7 and 3
	4. -7 and -3

**Question 16 refers to the following graph.**



1. On three carpet installation jobs, a contractor records the values above with the goal of analyzing whether her rates are high enough given the time it takes her to install carpet. It takes her 1 hour to collect tools and drive to a worksite. The x-axis shows square yards of carpet, and the y-axis shows hours spent. What is her rate of time per area installed?
	1. 0.0125 hr per sq yd
	2. 0.01625 hr per sq yd
	3. 0.0375 hr per sq yd
	4. 80 hr per sq yd
2. If the bakers at Mountain Bakery make 228 loaves of bread in 4 hours, what is the rate per hour?
	1. 54
	2. 56
	3. 57
	4. 58
3. What is the scale factor of this image?



* 1. 5
	2. 4
	3. .25
	4. 6
1. Based on the drawing below, how many cubic centimeters greater is the volume of Box A than the volume of Box B?
	1. 64
	2. 1,448
	3. 4,928
	4. 5,056
2. A team played 77 games and won 56 of them. There were no tied games. What is the ratio of wins to losses?
	1. 3:8
	2. 8:11
	3. 11:8
	4. 8:3
3. A local hospital currently has 184 male patients. If the ratio of male to female patients is 4:3, how many female patients are there in the hospital?
	1. 4
	2. 138
	3. 245
	4. 185
4. David bought a computer game on sale for $36. The game was originally $48. What was the percent of decrease in the game’s price?
	1. 12%
	2. 25%
	3. 33 $\frac{1}{3} $%
	4. 75%
5. At a restaurant, Pat’s total bill is $46. If he wants to tip 15 percent, how much should he leave as a tip?
	1. $690.00
	2. $31.00
	3. $15.00
	4. $6.90