

Arithmetic Sample Questions

Solve the following problems and select your answer from the choices given. You may use the paper you have been given for scratch paper.

- $2.75 + .003 + .158 =$
 - 4.36
 - 2.911
 - 0.436
 - 2.938
- $7.86 \times 4.6 =$
 - 36.156
 - 36.216
 - 351.56
 - 361.56
- $\frac{7}{20} =$
 - 0.035
 - 0.858
 - 0.35
 - 3.5
- Which of the following is the least?
 - 0.105
 - 0.501
 - 0.015
 - 0.15
- All of the following are ways to write 25 percent of N EXCEPT
 - 0.25 N
 - $\frac{25N}{100}$
 - $\frac{1}{4} N$
 - 25 N
- Which of the following is closest to 27.8×9.6 ?
 - 280
 - 300
 - 2,800
 - 3,000
- A soccer team played 160 games and won 65 percent of them. How many games did it win?
 - 94
 - 104
 - 114
 - 124
- Three people who work full-time are to work together on a project, but their total time on the project is to be equivalent to that of only one person working full-time. If one of the people is budgeted for one-half of his time to the project and a second person for one-third of her time, what part of the third worker's time should be budgeted to this project?
 - $\frac{1}{3}$
 - $\frac{3}{5}$
 - $\frac{1}{6}$
 - $\frac{1}{8}$
- 32 is 40 percent of what number?
 - 12.8
 - 128
 - 80
 - 800
- $3\frac{1}{3} - 2\frac{2}{5} =$
 - $1\frac{1}{2}$
 - $\frac{1}{15}$
 - $\frac{14}{15}$
 - $1\frac{1}{15}$

Elementary Algebra

Sample Questions

Solve the following problems and select your answer from the choices given. You may use the paper you have been given for scratch paper.

- If A represents the number of apples purchased at 15 cents each, and B represents the number of bananas purchased at 10 cents each, which of the following represents the total value of the purchases in cents?
 - A + B
 - $25(A + B)$
 - $10A + 15B$
 - $15A + 10B$
- $\sqrt{2} \times \sqrt{15} = ?$
 - 17
 - 30
 - $\sqrt{30}$
 - $\sqrt{17}$
- What is the value of the expression $2x^2 + 3xy - 4y^2$ when $x = 2$ and $y = -4$?
 - 80
 - 80
 - 32
 - 32
- In the figure below, both circles have the same center, and the radius of the larger circle is R . If the radius of the smaller circle is 3 units less than R , which of the following represents the area of the shaded region?



- πR^2
- $\pi(R - 3)^2$
- $\pi R^2 - \pi \times 3^2$
- $\pi R^2 - \pi(R - 3)^2$

- $(3x - 2y)^2 =$
 - $9x^2 - 4y^2$
 - $9x^2 + 4y^2$
 - $9x^2 + 4y^2 - 6xy$
 - $9x^2 + 4y^2 - 12xy$

- If $x > 2$, then $\frac{x^2 - x - 6}{x^2 - 4} =$
 - $\frac{x - 3}{2}$
 - $\frac{x - 3}{x - 2}$
 - $\frac{x - 3}{x + 2}$
 - $\frac{3}{2}$
- $\frac{4 - (-6)}{-5} =$
 - $\frac{2}{5}$
 - $-\frac{2}{5}$
 - 2
 - 2
- If $2x - 3(x + 4) = -5$, then $x =$
 - 7
 - 7
 - 17
 - 17
- $-3(5 - 6) - 4(2 - 3) =$
 - 7
 - 7
 - 1
 - 1
- Which of the following expressions is equivalent to $20 - \frac{4}{5}x \geq 16$?
 - $x \leq 5$
 - $x \geq 5$
 - $x \geq 32\frac{1}{2}$
 - $x \leq 32\frac{1}{2}$