

# Math Fundamentals Drill

Test your new skills and check your answers in Part V.

1 of 10

If a prime number,  $p$ , is squared and the result is added to the next prime number greater than  $p$ , which of the following integers could be the resulting sum?

Indicate all such integers.

- 3
- 4
- 7
- 14
- 58
- 60
- 65
- 69

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A bookstore will only order books that come in complete cases. Each case has 150 books and costs \$1,757.

Quantity A

The number of books that can be ordered for \$10,550

Quantity B

The number of books that can be ordered for \$12,290

- Quantity A is greater.
- Quantity B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.

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If the product of two distinct integers is 91, then which of the following could be the sum of the two integers?

Indicate all such sums.

- 92
- 91
- 7
- 13
- 20

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Which of the following is the units digit for the sum of all of the distinct prime integers less than 20?

- 4
- 5
- 6
- 7
- 8

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During a sale, a store decreases the prices on all of its scarves by 25 to 50 percent. If all of the scarves in the store were originally priced at \$20, which of the following prices could be the sale price of a scarf?

Indicate all such prices.

- \$8
- \$10
- \$12
- \$14
- \$16

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$$-2, 3, -5, -2, 3, -5, -2, 3, -5, \dots$$

In the sequence above, the first 3 terms repeat without end. What is the product of the 81st term through the 85th term?

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**Quantity A**

$$4\left(\frac{1}{2}x + 2y\right)$$

**Quantity B**

$$2x + 8y$$

- Quantity A is greater.  
 Quantity B is greater.  
 The two quantities are equal.  
 The relationship cannot be determined from the information given.

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**Quantity A**

The greatest number of consecutive nonnegative integers which have a sum less than 22

**Quantity B**

6

- Quantity A is greater.  
 Quantity B is greater.  
 The two quantities are equal.  
 The relationship cannot be determined from the information given.

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If  $x$  is the remainder when a multiple of 4 is divided by 6, and  $y$  is the remainder when a multiple of 2 is divided by 3, what is the greatest possible value of  $x + y$ ?

- 2  
 3  
 5  
 6  
 9

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$$12 - \left(\frac{6}{3} - 4 \times 3\right) - 8 \times 3 =$$

- 46  
 -30  
 -18  
 -6  
 -2