Math Fundamentals Drill

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

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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 <u>all</u> such integers.

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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

Quantity B

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

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

- \bigcirc Quantity A is greater.
- \bigcirc Quantity B is greater.
- \bigcirc The two quantities are equal.
- \bigcirc 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 \underline{all} such sums.

□ -92

- 91 –91
- \Box 7
- □ 13
- \Box 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?

- $\bigcirc 4$
- $\bigcirc 5$
- $\bigcirc 6$
- \bigcirc 7
- $\bigcirc 8$

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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 <u>all</u> 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?

Quantity A	Quantity B
$4\left(\frac{1}{2}x+2y\right)$	2x + 8y

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 $\bigcirc 2$ \bigcirc 3

 \bigcirc -6○ −2

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?

		\bigcirc 5
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Quantity A	Quantity B	\bigcirc 9
$4\left(\frac{1}{2}x+2y\right)$	2x + 8y	10 of 10
\bigcirc Quantity A is greater.		$12 - \left(\frac{6}{3} - 4 \times 3\right) - 8 \times 3 =$
\bigcirc Quantity B is greater.		
\bigcirc The two quantities are e	equal.	\bigcirc -46
○ The relationship cannot information given.	be determined from the	\bigcirc -30 \bigcirc -18

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Quantity A	Quantity B
The greatest number of	
consecutive nonnegative	6
integers which have a	0
sum less than 22	

 \bigcirc Quantity A is greater.

 \bigcirc Quantity B is greater.

 \bigcirc The two quantities are equal.

 \bigcirc The relationship cannot be determined from the information given.