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**Vendor:**Test Prep

**Exam Code:**PRAXIS-MATHEMATICS-SECTION

**Exam Name:**Pre-Professional Skills Test (PPST) -  
Mathematics Section

**Version:**Demo

**QUESTION 1**

Don gets paid \$9 an hour, but if he works more than 30 hours in a week his rate of pay is increased by  $\frac{1}{2}$ . How much would Don get paid for a 38-hour work week?

- A. \$342
- B. \$390
- C. \$367
- D. \$378
- E. \$365

Correct Answer: D

Explanation: The problem can be solved with the following expression:  $30(9) + 8(9 \times 1.5)$

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**QUESTION 2**

What percent of 38 is 16?

- A. 16%
- B. 40%
- C. 35%
- D. 38%
- E. 42%

Correct Answer: E

Explanation: Divide 16 by 38 and multiply by 100.

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**QUESTION 3**

Randy got the following test scores in science class: 76, 98, 78, 80, and 54. What is the median test score?

- A. 77
- B. 98
- C. 54
- D. 84
- E. 78

Correct Answer: E

Explanation: The median is the piece of data that is in the middle position when the entire set is placed in order from least to greatest.

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**QUESTION 4**

Solve for x:  $(7x/5) + 9 = 23$

- A. 10
- B. 9
- C. 11
- D. 7
- E. 8

Correct Answer: A

Explanation: In order to find x, you must subtract 9 from 23, then multiply the difference by 5, and finally divide the product by 7.

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**QUESTION 5**

$8.26 \times 76.8 =$

- A. 6343.68
- B. 63.4368
- C. 634.368
- D. 634,368
- E. 6.34368

Correct Answer: C

Explanation: Remember that since the terms of the problem have three units to the right of the decimal point, the answer will as well.

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**QUESTION 6**

$12x - 4x + 8 =$

- A.  $16x$
- B.  $10x$

C.  $x$

D.  $8x + 8$

E.  $20x$

Correct Answer: D

Explanation: Remember that unlike terms cannot be combined.

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### QUESTION 7

If Ted runs at 8 miles an hour, which computation would you use to determine how far Ted runs in 15 minutes?

A.  $8 \times 15$

B.  $8 \times 25$

C.  $8 \times 0.15$

D.  $8 \times 0.25$

E.  $8 \times 2.5$

Correct Answer: D

Explanation: Fifteen minutes is a quarter-hour, which is equivalent to the decimal 0.25.

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### QUESTION 8

If  $x = 3$  and  $y = -1$ , then  $3x^2 + 2xy - 5 = ?$

A. 18

B. 24

C. 12

D. 14

E. 16

Correct Answer: E

Explanation: Substitute the given values into the equation, and then remember to observe the order of operations.

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### QUESTION 9

Rex is four times as old as Ted. If the sum of their ages is 30, how old is Ted?

A. 5

- B. 8
- C. 10
- D. 6
- E. 12

Correct Answer: D

Explanation: The ratio of Rex's age to Ted's age is 4:1; the sum of their ages can be divided by the total number of units in this ratio, 5. This indicates that Rex is 24 and Ted is 6.

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#### QUESTION 10

If  $5x + 7 = 8x - 2$ , then

- A.  $x = 5$
- B.  $x = 3$
- C.  $x = 4$
- D.  $x = 2$
- E.  $x = 1$

Correct Answer: B

Explanation: Solve the equation for  $x$  by subtracting  $5x$  from both sides, adding 2 to both sides, and then dividing both sides by 3.

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#### QUESTION 11

What is the volume of a rectangular solid that is 8 inches long, 6 inches wide, and 4 inches tall?

- A. 192 cubic inches
- B. 184 cubic inches
- C. 194 square inches
- D. 192 square inches
- E. 194 cubic inches

Correct Answer: A

Explanation: Volume is found by multiplying length, width, and height.

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#### QUESTION 12

Identify the missing term in the following geometric progression: 16, -4, 1, -1/4, ...

- A.  $1/8$
- B.  $2/6$
- C.  $1/16$
- D.  $-2/6$
- E.  $1/3$

Correct Answer: C

Explanation: Each successive term is found by dividing the previous term by -4.