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# PRAXIS-MATHEMATICS-SECTION<sup>Q&As</sup>

Pre-Professional Skills Test (PPST) - Mathematics Section

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**QUESTION 1**

Albert is driving at 80 miles per hour. How far will he go in 45 minutes?

- A. 60 miles
- B. 45 miles
- C. 80 miles
- D. 180 miles
- E. 90 miles

Correct Answer: A

Explanation: 45 minutes is three-quarters of an hour, which can be rewritten as the decimal 0.75. Multiply this decimal by his speed.

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**QUESTION 2**

If a recipe for cookies calls for  $\frac{3}{4}$  of a cup of sugar, and you want to quadruple the recipe, how many cups of sugar will you need?

- A. 3 cups
- B. 4 cups
- C.  $2\frac{3}{4}$  cups
- D.  $3\frac{1}{2}$  cups
- E.  $3\frac{3}{4}$  cups

Correct Answer: A

Explanation: The fraction  $\frac{3}{4}$  is equivalent to the decimal 0.75. Multiply this decimal by 4.

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**QUESTION 3**

If the value of  $x$  is between 0.00776 and 0.0506, which of the following numbers could be  $x$ ?

- A. 0.008
- B. 0.890
- C. 0.0008
- D. 0.8009
- E. 0.809



Correct Answer: A

Explanation: When solving this sort of problem, it may help to write the two given numbers so that one is under the other and the decimal points are aligned.

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#### QUESTION 4

$$\frac{3}{8} + \frac{1}{3} + \frac{1}{8} =$$

- A.  $\frac{5}{6}$
- B.  $\frac{3}{4}$
- C.  $\frac{1}{2}$
- D.  $\frac{3}{5}$
- E.  $\frac{2}{5}$

Correct Answer: A

Explanation: Convert the fractions so that they have a common denominator of 24.

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#### QUESTION 5

Which of the following numbers has the greatest absolute value: 17, -9, 15.5, -20, 19?

- A. -20
- B. 19
- C. 15.5
- D. -9
- E. 12

Correct Answer: A

Explanation: Absolute value is the number of integers away from zero, so the absolute value of -20 is greater than the absolute value of 19 by one unit.

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#### QUESTION 6

If Dave drives at a steady speed of 50 miles per hour, how long will it take him to drive 10 miles?

- A. 20 minutes
- B. 10 minutes
- C. 15 minutes



D. 30 minutes

E. 12 minutes

Correct Answer: E

Explanation: Since there are 60 minutes in an hour, this problem can be solved with the following equation:  $50/60 = 10/x$

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#### QUESTION 7

$8.26 \times 76.8 =$

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 8

$4 \frac{2}{3} - 2 \frac{1}{2} =$

A.  $1 \frac{1}{6}$

B.  $1 \frac{1}{2}$

C.  $2 \frac{2}{3}$

D.  $2 \frac{1}{6}$

E.  $2 \frac{1}{4}$

Correct Answer: D

Explanation: Convert both fractions so that they have a common denominator of 6.

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#### QUESTION 9

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 10

John will be  $x$  in 7 years. How old was he last year?

A.  $x + 7$

B.  $1 - x - 7$

C.  $x + 8$

D.  $x - 8$

E.  $7x$

Correct Answer: D

Explanation: The target age can be found by subtracting first seven and then one year from  $x$ .

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#### QUESTION 11

$17/68 =$

A. 30%

B.  $1/3$

C. 45%

D.  $1/4$

E.  $2/5$

Correct Answer: D

Explanation: The simplest form of this fraction can be found by dividing both sides by 17.

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#### QUESTION 12

$3/27 =$



- A.  $\frac{1}{9}$
- B.  $\frac{1}{10}$
- C.  $\frac{1}{2}$
- D.  $\frac{3}{18}$
- E.  $\frac{2}{7}$

Correct Answer: A

Explanation: Divide numerator and denominator by 3.

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### QUESTION 13

Solve:  $3\frac{1}{5} \times 5 =$

- A. 14
- B.  $15\frac{1}{2}$
- C.  $10\frac{5}{15}$
- D. 16
- E. 13

Correct Answer: D

Explanation: Before multiplying, convert the mixed number to an improper fraction.

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### QUESTION 14

54 is 75% of what number?

- A. 80
- B. 75
- C. 70
- D. 100
- E. 72

Correct Answer: E

Explanation: Multiply 54 by 100 and then divide by 75.

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### QUESTION 15



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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