Nursing

PSB-PN
Psychological Services Bureau Aptitude for Practical Nursing

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Question: 1

```
  236
+ 301
```

a. 505
b. 507
c. 535
d. 537

Answer: D

Explanation:

This is a simple addition problem. Start with the one's column (on the right). Add the figures 6+1, 3+0, 2+3 to get the answer 537.

```
  236          236          236          236
+ 301        + 301        + 301        + 301
               7            37           537
```

Question: 2

```
  4,307
+ 1,864
```

a. 5,161
b. 5,271
c. 6,171
d. 6,271

Answer: C

Explanation:

This is a simple addition problem with carrying. Start with the ones column and add 7+4, write down the 1 and add the 1 to the digits in the ten's column. Now add 0+6+1. Write down the 7. Now add 3+8 and write down the 1. Add the 1 to the thousand's column. Add 4+1+1 and write the 6 to get the answer 6171.

```
                   ⁺¹                         ⁺¹
  4307        4307        4307        4307        4307
+ 1864      + 1864      + 1864      + 1864      + 1864
              1           71          171         6171
```

Question: 3

If $a = 3$ and $b = -2$, what is the value of $a^2 + 3ab - b^2$?

a. 5
b. -13
c. -4
d. -20

Answer: C

Explanation:

Substitute the given values for a and b and perform the required operations:

$$a^2 + 3ab - b^2 = 3^2 + 3(3)(-2) - (-2)^2$$
$$= 9 - 18 - 4$$
$$= -13$$

Question: 4

$$\begin{array}{r} 356 \\ - 167 \\ \hline \end{array}$$

a. 189
b. 198
c. 211
d. 298

Answer: A

Explanation:

This is a subtraction problem which involves borrowing to get the answer of 189.

$$\begin{array}{r} 356 \\ - 167 \\ \hline \end{array} \qquad \begin{array}{r} {}^{+10} \\ 346 \\ - 167 \\ \hline 9 \end{array} \qquad \begin{array}{r} {}^{+10}{}^{+10} \\ 246 \\ - 167 \\ \hline 89 \end{array} \qquad \begin{array}{r} {}^{+10}{}^{+10} \\ 246 \\ - 167 \\ \hline 189 \end{array}$$

Question: 5

$$\begin{array}{r} 5,306 \\ - 3,487 \\ \hline \end{array}$$

a. 1,181
b. 1,819
c. 2,119
d. 2,189

Answer: B

Explanation:

This is a subtraction problem which also involves borrowing to get the answer of 1,819. In this case, it involves borrowing from zero, which just means that the zero needs to borrow from the next digit to become 10 and then it becomes 9 to lend to the original digit.

$$
\begin{array}{r} 5306 \\ -\ 3487 \\ \hline \end{array}
\qquad
\begin{array}{r} 5206 \\ -\ 3487 \\ \hline \end{array}
\qquad
\begin{array}{r} 5206 \\ -\ 3487 \\ \hline 9 \end{array}
\qquad
\begin{array}{r} 5206 \\ -\ 3487 \\ \hline 19 \end{array}
\qquad
\begin{array}{r} 4206 \\ -\ 3487 \\ \hline 819 \end{array}
\qquad
\begin{array}{r} 4206 \\ -\ 3487 \\ \hline 1819 \end{array}
$$

Question: 6

32 is what percent of 80?

a. 25%
b. 32%
c. 40%
d. 44%

Answer: C

Explanation:

This problem is solved by setting up the following relation and solving for x:

$$ \frac{x}{100} = \frac{32}{80} $$

$$ x = \frac{32 \times 100}{80}\% = \frac{(4 \times 8) \times (10 \times \cancel{10})}{\cancel{8} \times \cancel{10}}\% = 4 \times 10\% = 40\% $$

Question: 7

$$
\begin{array}{r} 707 \\ \times\ 17 \\ \hline \end{array}
$$

a. 12,019
b. 12,049
c. 17,019
d. 17,049

Answer: A

Explanation:

This is a multiplication problem with 0. Start with the 7 in 17 and multiply it by each of the digits at the top 7×7. Write down the 9 and place the 4 in the ten's column. $7 \times 0 = 0$. Add the 4. $7 \times 7 = 49$. The top line will read 4949. Now multiply 1 by 7. Write down the 7. $1 \times 0 = 0$ and $1 \times 7 = 7$. The bottom line will read 707. Add these together with the 7 in the tens column and the answer will be 12,019.

$$
\begin{array}{r} 707 \\ \times\ 17 \\ \hline \end{array}
\qquad
\begin{array}{r} 707 \\ \times\ 17 \\ \hline 4949 \end{array}
\qquad
\begin{array}{r} 707 \\ \times\ 17 \\ \hline 4949 \\ 707 \end{array}
\qquad
\begin{array}{r} 707 \\ \times\ 17 \\ \hline 4949 \\ 707 \\ \hline 12019 \end{array}
$$

Question: 8

$7\overline{)917}$

a. 131
b. 131 R4
c. 145
d. 145 R4

Explanation:

This is a simple division problem. Divide the 7 into 9. It goes in 1 time. Write 1 above the 9 and subtract 7 from 9 to get 2. Bring down the 1 and place it beside the 2. Divide 7 into 21. It goes in 3 times. Divide 7 into 7. It goes 1 time.

$$
\begin{array}{r}
131 \\
7\overline{)917} \\
7 \\
\overline{21} \\
21 \\
\overline{07} \\
07 \\
\overline{0}
\end{array}
$$

Question: 9

Factor the following expression: $x^2 + x - 12$

a. $(x-4)(x+4)$
b. $(x-2)(x+6)$
c. $(x+6)(x-2)$
d. $(x+4)(x-3)$

Explanation:

Recall that the general form of a quadratic expression is $ax^2 + bx + c$. A great way to factor quadratic expression like this, where $a = 1$ and all the answer choices are integer factors, would be to consider the factors of the last term, c. Specifically, any two factors of c that would add to b. Essentially: $f_1 \times f_2 = -12$ and $f_1 + f_2 = 1$. We can check the factors of -12:

f_1	f_2	$f_1 + f_2$
12	-1	11
6	-2	4
4	-3	1
3	-4	-1
2	-6	-4
1	-12	-11

From this it is clear that the only option that works is 4 and -3.

Question: 10

$\frac{38}{100}$ as a decimal

a. 0.38
b. 0.038
c. 3.8
d. 0.0038

Answer: A

Explanation:
To change this fraction into a decimal, move the decimal to the right two places: 0.38.

Question: 11

```
   6.8
  11.3
+ 0.06
```

a. 17.16
b. 17.70
c. 18.16
d. 18.70

Answer: C

Explanation:

This is a simple addition problem. Line up the decimals so that they are all in the same place in the equation, and see that there is a 6 by itself in the hundredth's column. Then add the tenths column: $8 + 3 = 11$. Write down the 1 and carry the 1. Add the ones column: $6 + 1$ plus the carried 1. Write down 8. Then write down the 1.

```
    6.8          ·¹            ·¹            ·¹
  1 1.3         6.8           6.8           6.8
+   0.0 6      1 1.3         1 1.3         1 1.3
            +   0.0 6     +   0.0 6     +   0.0 6
                 1 6          8.1 6        1 8.1 6
```

Question: 12

The average of six numbers is 4. If the average of two of those numbers is 2, what is the average of the other four numbers?

a. 5
b. 6
c. 7
d. 8

Answer: A

Explanation:

A set of six numbers with an average of 4 must have a collective sum of 24. The two numbers that average 2 will add up to 4, so the remaining numbers must add up to 20. The average of these four numbers can be calculated: $20/4 = 5$.

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