

Number, Number Sense and Operations: Worksheet Four

1. Evaluate $37 - (2 \times j)$ for $j = 5$.

A 69 B 30
C 175 D 27

Simplify.

2. $25 \div 5 \cdot 5 + 6 - 5$

A 1 B 6 C 26 D 2

3. $2 \cdot 2^3$

A 64 B 24 C 13 D 16

4. Write the powers in order from smallest to largest.

$6^3, 5^4, 4^4, 4^5$

A $4^5, 4^4, 6^3, 5^4$

B $6^3, 4^4, 5^4, 4^5$

C $4^4, 6^3, 5^4, 4^5$

D $4^4, 5^4, 6^3, 4^5$

5. Which of the following numbers is divisible by 4?

A 8303 B 21,413

C 2128 D 2527

6. The band teacher wants to place the marching band in a rectangular array. She wants the number of rows to be less than or equal to the number of columns. List all possible ways she can arrange 60 band members.

A 1 by 60, 2 by 30, 6 by 10

B 1 by 60, 2 by 30, 3 by 20, 4 by 15, 5 by 12, 6 by 10, 10 by 6

C 1 by 60, 2 by 30, 3 by 20, 4 by 15, 5 by 12, 6 by 10

D 2 by 30, 3 by 20, 4 by 15, 5 by 12, 6 by 10, 10 by 6, 2 by 60

7. Write the prime factorization of 756.

A $2^3 \cdot 3^2 \cdot 9$ B $2^2 \cdot 3^3 \cdot 9$

C $2^2 \cdot 3^3 \cdot 7$ D $2^3 \cdot 3^2 \cdot 7$

8. Twin primes are two successive prime numbers that differ by 2. How many pairs of twin primes are there between 2 and 36?

A 4 B 7 C 5 D 6

9. Find the greatest common factor of 4 and 72.

A 6 B 4 C 8 D 2

10. A teacher has 12 stickers, 18 buttons, and 36 ribbons. He wants to divide the awards so that each portion has an equal number of stickers, an equal number of buttons, and an equal number of ribbons. What is the maximum number of portions he can make?

A 2 B 3 C 12 D 6

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11. Write $\frac{12}{18}$ in simplest form.

- A $\frac{4}{6}$ B $\frac{7}{12}$
C $\frac{5}{7}$ D $\frac{2}{3}$

12. Jose scored 12 points and Marty scored 9 in the first period. Together they scored $\frac{21}{49}$ of their team's points. What is another name for this fraction reduced to simplest form?

- A 2 B 3 C $\frac{3}{7}$ D $\frac{2}{7}$

13. Tess and two friends want to divide 5 pounds of clams evenly. How much should each person get?

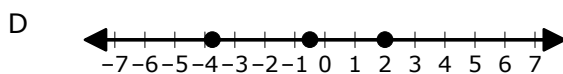
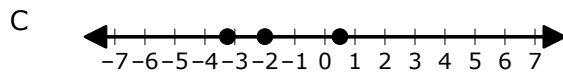
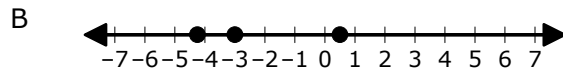
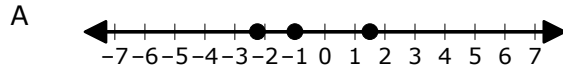
- A $\frac{2}{5}$ lb B $\frac{5}{3}$ lb
C $\frac{3}{5}$ lb D $\frac{5}{2}$ lb

14. Write $\frac{7}{1000}$ as a decimal.

- A 0.007 B 0.0700
C 0.0007 D 0.7

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15. Which of the following number lines shows the graph of -2 , $\frac{1}{2}$, and $-3\frac{1}{4}$?



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1 D

2 C

3 D

4 B

5 C

6 C

7 C

8 C

9 B

10 D

11 D

12 C

13 B

14 A

15 C