

Number Sense, and Operations; Worksheet One

1. Write 8175 in expanded notation.

- [A] $(8 \times 1000) + (1 \times 100) + (7 \times 10) + 5$
 [B] $(8 \times 10000) + (1 \times 1000) + (5 \times 100) + (7 \times 10)$
 [C] $(8 \times 1000) + (1 \times 100) + (5 \times 10) + (7 \times 10)$
 [D] $(8 \times 10000) + (1 \times 1000) + (7 \times 100) + (5 \times 10)$

2. Subtract:
$$\begin{array}{r} 1396 \\ - 402 \\ \hline \end{array}$$
 [A] 894 [B] 994 [C] 1698 [D] 1798

3. Divide: $7 \overline{)1474}$ [A] 30 r 4 [B] 210 r 4 [C] 30 r 3 [D] 209 r 4

4. Simplify: $4 \div 2 \cdot 2 + 5 - 2$ [A] 7 [B] 4 [C] 3 [D] 5

5. Evaluate $(2a \times 3 + 7) - 3b$ if $a = 12$ and $b = 1$.

- [A] 75 [B] 309 [C] 76 [D] 243

6. Write 45 in base two. [A] 45_2 [B] 212212_2 [C] 101101_2 [D] 90_2

7. Write 54.375 in expanded notation.

- [A] $(5 \times 10) + (4 \times 1) + (3 \times 0.1) + (7 \times 0.01) + (5 \times 0.001)$
 [B] $(5 \times 10) + (4 \times 1) + (37 \times 0.01) + (5 \times 0.001)$
 [C] $54 + (375 \times 0.001)$ [D] $54 + (3 \times 0.1) + (7 \times 0.01) + (5 \times 0.001)$

8. The "whole" part represents 1. What portion do the shaded circles represent?



- [A] 1.6 [B] 0.8 [C] 0.7 [D] 0.9

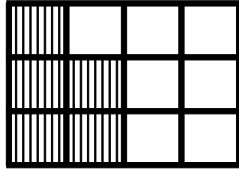
9. Write 0.59 as a fraction. [A] $\frac{59}{10}$ [B] 59 [C] $\frac{59}{100}$ [D] $\frac{6}{100}$

10. Write 0.08 as a percent. [A] $\frac{8}{100}\%$ [B] 0.0008% [C] 8% [D] 0.08%

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11. Write as a power: $(9)(9)(9)(9)$ [A] $(9)^4$ [B] $(9)^{-4}$ [C] $(4)^9$ [D] $(9)^5$

12. In the diagram below, the shaded area shows sections of a garden that have been fertilized. What fraction of the garden has been fertilized?



[A] $\frac{5}{12}$

[B] 5

[C] $\frac{5}{7}$

[D] $\frac{7}{12}$

13. Add: 56.654 [A] 571.23 [B] 57.123 [C] 61.344 [D] 63.954

$$\begin{array}{r} 56.654 \\ + 4.69 \\ \hline \end{array}$$

14. Estimate the difference. 46.34 [A] 60 [B] 50 [C] 55 [D] 40

$$\begin{array}{r} 46.34 \\ - 12.87 \\ \hline \end{array}$$

15. Multiply: 5.02×1.9 [A] 0.9538 [B] 9.538 [C] 95.38 [D] 953.8

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[1] A

[2] B

[3] B

[4] A

[5] C

[6] C

[7] A

[8] B

[9] C

[10] C

[11] A

[12] A

[13] C

[14] D

[15] B