

SHOW ALL WORK to receive full credit.

Multiply or divide. (2 points each)

1.
$$\begin{array}{r} 1409 \\ \times 73 \\ \hline \end{array}$$

2.
$$6 \overline{) 9614}$$

$\frac{90}{\times 1}$	$\frac{90}{\times 2}$	$\frac{90}{\times 3}$	$\frac{90}{\times 4}$	$\frac{90}{\times 5}$	$\frac{90}{\times 6}$	$\frac{90}{\times 7}$	$\frac{90}{\times 8}$	$\frac{90}{\times 9}$
90	180	270	360	450	540	630	720	810

3.
$$90 \overline{) 132307}$$

Simplify the following expressions using positive and negative integers. (1 point each)

- | | | | |
|----------------------|-----------------------|-----------------------|--------------------------|
| 4. $-8 + 15 =$ _____ | 5. $-29 + 11 =$ _____ | 6. $24 - 28 =$ _____ | 7. $5 + 4 - 7 =$ _____ |
| 8. $-3 + 8 =$ _____ | 9. $-3 + 14 =$ _____ | 10. $-3 + 15 =$ _____ | 11. $-3 - 9 + 1 =$ _____ |
| 12. $-9 + 5 =$ _____ | 13. $-2 + 22 =$ _____ | 14. $-18 + 1 =$ _____ | 15. $-3 + 2 + 1 =$ _____ |

**Complete the following without the use of a table, but still think of the mental percents to help you.
(2 points each)**

16. What is 95% of \$960.00? _____

17. What is 80% of 70? _____

18. What is 40% of \$20.00? _____

19. What is 20% of 400? _____

Solve the following equations. (3 points each)

20. $8x - 5 = 67$

21. $3x + 20 = 8x - 5$

22. $\frac{3}{x} = \frac{6}{18}$

23. $\frac{10}{5} = \frac{x+3}{9}$

24. $\frac{2}{x+3} = \frac{4}{x+6}$

25. $\frac{9}{18} = \frac{x+4}{10}$

26. $4(5x + 2) = 16(x + 12) + 4$

27. $2(6x + 9) + 15 = 3(8x + 3)$

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Multiply or divide. (3 points each)

1.
$$\begin{array}{r} 2037 \\ \times 48 \\ \hline \end{array}$$

2.
$$4 \overline{) 9614}$$

$\frac{72}{\times 1}$	$\frac{72}{\times 2}$	$\frac{72}{\times 3}$	$\frac{72}{\times 4}$	$\frac{72}{\times 5}$	$\frac{72}{\times 6}$	$\frac{72}{\times 7}$	$\frac{72}{\times 8}$	$\frac{72}{\times 9}$
72	144	216	288	360	432	504	576	648

3.
$$72 \overline{) 289538}$$

Simplify the following expressions using positive and negative integers. (1 point each)

4. $-3 + 24 = \underline{\hspace{2cm}}$

5. $-16 + 16 = \underline{\hspace{2cm}}$

6. $-6 + 8 - 4 = \underline{\hspace{2cm}}$

7. $23 + 14 = \underline{\hspace{2cm}}$

8. $-3 - 4 + 2 = \underline{\hspace{2cm}}$

9. $-6 - 3 + 9 - 4 = \underline{\hspace{2cm}}$

10. $-13 - 15 = \underline{\hspace{2cm}}$

11. $3 - 5 + 4 = \underline{\hspace{2cm}}$

12. $8 - 5 + 6 + 1 = \underline{\hspace{2cm}}$

13.
$$\begin{array}{r} +18 \\ -22 \\ \hline \end{array}$$

14.
$$\begin{array}{r} -23 \\ +14 \\ \hline \end{array}$$

15. $-6 + 7 - 3 - 8 = \underline{\hspace{2cm}}$

**Complete the following without the use of a table, but still think of the mental percents to help you.
(2 points each)**

16. What is 15% of \$184.00? _____

17. What is 3% of 50? _____

18. What is 49% of \$300.00? _____

19. What is 65% of 600? _____

20. What is 90% of 250? _____

Solve the following equations. (3 points each)

21. $59 = 9x - 13$

22. $11x - 15 = 8x + 21$

23. $\frac{15}{x} = \frac{10}{18}$

24. $\frac{12}{18} = \frac{x+6}{15}$

25. $\frac{x+3}{x} = \frac{24}{15}$

26. $2(4x + 7) + 3x + 2 = 4(x + 14) + x + 2$

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Multiply or divide. (3 points each)

1.
$$\begin{array}{r} 457 \\ \times 25 \\ \hline \end{array}$$

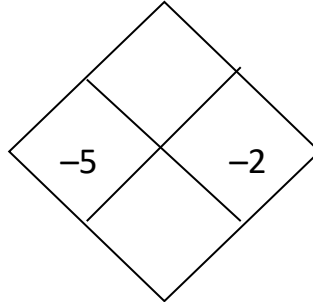
2.
$$3 \overline{)5093}$$

$\begin{array}{r} 37 \\ \times 1 \\ \hline 37 \end{array}$	$\begin{array}{r} 37 \\ \times 2 \\ \hline 74 \end{array}$	$\begin{array}{r} 37 \\ \times 3 \\ \hline 111 \end{array}$	$\begin{array}{r} 37 \\ \times 4 \\ \hline 148 \end{array}$	$\begin{array}{r} 37 \\ \times 5 \\ \hline 185 \end{array}$	$\begin{array}{r} 37 \\ \times 6 \\ \hline 222 \end{array}$	$\begin{array}{r} 37 \\ \times 7 \\ \hline 259 \end{array}$	$\begin{array}{r} 37 \\ \times 8 \\ \hline 296 \end{array}$	$\begin{array}{r} 37 \\ \times 9 \\ \hline 333 \end{array}$
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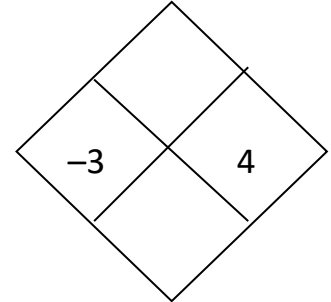
3.
$$37 \overline{)67541}$$

Complete the diamonds. (2 points each)

4.



5.



Simplify the following expressions using positive and negative integers. (1 point each)

6. $5 - 12 = \underline{\hspace{2cm}}$

7. $-7 - 16 = \underline{\hspace{2cm}}$

8. $-8 + 1 - 5 = \underline{\hspace{2cm}}$

9. $-3 + 5 - 1 = \underline{\hspace{2cm}}$

10. $4 - 8 - 2 = \underline{\hspace{2cm}}$

11. $5 - 7 + 2 - 4 = \underline{\hspace{2cm}}$

12.
$$\begin{array}{r} -13 \\ + 1 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 33 \\ - 12 \\ \hline \end{array}$$

14. $2 + 7 - 5 - 3 = \underline{\hspace{2cm}}$

**Complete the following without the use of a table, but still think of the mental percents to help you.
(2 points each)**

15. What is 52% of \$310.00? _____

16. What is 49% of 343? _____

17. What is 11% of \$320.00? _____

18. What is 80% of 500? _____

19. What is 40% of 250? _____

Solve the following equations. (3 points each)

20. $38 = 2x - 4$

21. $10x - 5 = 5x + 10$

22. $\frac{40}{x+1} = \frac{72}{x+5}$

23. $\frac{20}{15} = \frac{x+3}{18}$

24. $\frac{x+3}{2} = \frac{x+9}{4}$

25. $3(2x + 3) - 9 = 5(x + 1)$