

Integer Operations Review

Name: _____

For each problem you must add, subtract, multiply and divide the integers. No calculators and all answers must be written in simplest form, no improper fractions!

1. $-9, -9$

+	-
*	/

5. $-16, -4$

+	-
*	/

2. $8, -2$

+	-
*	/

6. $-35, 70$

+	-
*	/

3. $40, -20$

+	-
*	/

7. $32, -8$

+	-
*	/

4. $-5, 3$

+	-
*	/

8. $100, -60$

+	-
*	/

Name: _____ Date: _____

Review of all Operations on Integers

1. $5 + (-65) =$

2. $-23 + 8 =$

3. $-20 - 30 =$

4. $-2 \cdot (-18) =$

5. $-8 \div (-8) =$

6. $5 \cdot (-8) =$

7. $-12 - (-4) =$

8. $16(-1) =$

9. $-7 + (-14) =$

10. $42 + 16 =$

11. $-99 - 1 =$

12. $-99 + (-1) =$

13. $-88 - (-5) =$

14. $-32 \div 8 =$

15. $0 + (-62) =$

16. $0 - (-62) =$

17. $8 - 12 =$

18. $-10(2) =$

19. $5(-2)(-1) =$

20. $-10 - 2 =$

21. $16 - 30 =$

22. $0 - 112 =$

23. $-60 \div 12 =$

24. $19 \cdot 2 =$

25. $13 + (-11) =$

26. $-7 - (-2) =$

27. $7 - (-2) =$

28. $-4 + 5 =$

29. $-10 + 16 - 8 =$

30. $0 - 9 - 9 =$

31. $8(-12) =$

32. $8 - (-12) =$

33. $-1 + 100 - 99 =$

34. $14 - 4 =$

35. $-40 \div (-5) =$

36. $4 - 14 =$

37. $21 \cdot (-3) =$

38. $120 + (-10) =$

39. $0 - 6 + (-1) =$

Write and solve a problem for each of the following:

40. What is the sum of -16 and -48? _____

41. What is the product of 9 and -100? _____

42. What is the quotient of 14 divided by -7? _____

43. What is the difference between 17 and -6? _____

44. What is the quotient of 7 divided by 14? _____

Name _____

Period _____

Review All Four Operations

Solve each of the following and reduce your answers to lowest terms.

1. $\frac{2}{5} + \frac{7}{20} =$

2. $\frac{1}{8} + \frac{1}{2} =$

3. $\frac{2}{3} + \frac{3}{4} =$

4. $\frac{3}{4} + \frac{5}{6} =$

5. $5\frac{1}{2} + 6\frac{1}{3} =$

6. $6\frac{2}{5} - 3\frac{1}{2} =$

7. $10\frac{7}{12} - 6 =$

8. $8 - 6\frac{1}{5} =$

9. $7\frac{5}{6} - 1\frac{3}{4} =$

10. $7\frac{1}{2} - 3\frac{3}{4} =$

11. $\left(\frac{1}{3}\right)\left(\frac{3}{4}\right) =$

12. $\left(\frac{1}{2}\right)\left(-1\frac{1}{2}\right) =$

13. $\left(-1\frac{1}{4}\right)\left(-2\frac{6}{15}\right) =$

14. $\left(8\frac{1}{6}\right)\left(1\frac{5}{7}\right) =$

15. $\frac{1}{3} \div \frac{2}{5} =$

16. $\frac{8}{9} \div 3 =$

17. $\left(-\frac{9}{10}\right) \div \left(-\frac{3}{4}\right) =$

18. $12 \div \left(-2\frac{1}{4}\right) =$

19. $10 \div 2\frac{2}{5} =$

20. $\left(-2\frac{1}{6}\right) \div \left(-1\frac{4}{9}\right) =$

Solve each of the following questions and be sure to show all work.

21. The length of a kangaroo's leap can be up to $6\frac{1}{2}$ times its height. If a kangaroo is $7\frac{1}{2}$ feet tall, how far can it jump?

22. Susan threw the javelin $76\frac{2}{3}$ meters for her first throw and $72\frac{3}{4}$ meters for her second throw. How much longer was her first throw than her second throw?

Name: _____ Date: _____

Multiplying Decimal Numbers

When multiplying decimal numbers:

1. It is not necessary to line up the decimal points
2. Ignore the decimal points and multiply as you would multiply whole numbers.
3. To place the decimal point in the answer, count the total number of digits to the right of the decimal point for both numbers being multiplied; these are called decimal places.

Example:

$$\begin{array}{r}
 0.31 \longrightarrow 2 \text{ decimal places} \\
 \times 0.18 \longrightarrow 2 \text{ decimal places} \\
 \hline
 248 \\
 310 \\
 \hline
 558 \longrightarrow \text{answer should have} \\
 \qquad \qquad \qquad 4 \text{ decimal places}
 \end{array}$$

$$\begin{array}{r}
 0.31 \\
 \times 0.18 \\
 \hline
 248 \\
 310 \\
 \hline
 .0558
 \end{array}$$

Count 4 digits from the left then place the decimal point.

So, the answer is **0.0558**

Why do we count the total number of decimal places and place the decimal point in the final answer accordingly?

Let's write the same decimal numbers in the above example as fractions then do the multiplication:

0.31 is written as $\frac{31}{100}$ and 0.18 is written as $\frac{18}{100}$

Multiply $\frac{31}{100} \cdot \frac{18}{100} = \frac{558}{10,000} = 0.0558$ → The same answer we got when we multiplied 0.31 by 0.18 in the above example

Solve.

1.
$$\begin{array}{r} 0.12 \\ \times 0.5 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 5.07 \\ \times 0.73 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 15.21 \\ \times 0.45 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 2.08 \\ \times 3 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 19.06 \\ \times 231 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 677 \\ \times 1.28 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 9.22 \\ \times .108 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 40.65 \\ \times 7.53 \\ \hline \end{array}$$

Name: _____

Date: _____

Mixed Decimal Review

1) $(65.9)(2.21) =$

2) $(0.057) \cdot (0.12) =$

3) $56 - 1.24 =$

4) $0.002 + 98 =$

5) $(62.09)(8.4) =$

6)
$$\begin{array}{r} 400.3 \\ - 56.2 \\ \hline \end{array}$$

7) $163 - 75.14$

8) $74.9 \overline{)352.03}$

Name: _____

Date: _____

Solve the following problems.

1. The Hubba Bubba Bubble Gum Tape is 6 feet long. How many $2\frac{1}{4}$ inch pieces can the tape be cut into?

2. Maria needs $\frac{3}{4}$ of a cup of sugar for one serving of her recipe. How many cups of sugar will she need for 5 servings?

3. Chris has a $3\frac{1}{2}$ feet long board of wood. He cuts out 4 pieces that are each $\frac{2}{3}$ foot long.

a. Find the combined length of the 4 pieces.

b. Find the length of the remaining board after Chris gets his 4 pieces.

4. My garden is planted with flowers. $\frac{5}{6}$ of the flowers are roses. $\frac{2}{3}$ of the roses are yellow and the rest are red.

a. What fraction of the roses is red?

b. What fraction of the flowers represents red roses? Write and solve a problem.

c. What fraction of the flowers represents yellow roses? Write and solve a problem.

5. Find $\frac{1}{5}$ of 65 using division

6. Find $\frac{1}{5}$ of 65 using multiplication

7. $\frac{2}{15}$ of a class of 30 students are wearing read t-shirts today. How many students is that?

8. Jamar is trying to fit his encyclopedia on a shelf. Each book in his encyclopedia is $2\frac{1}{4}$ inch thick. The self is $2\frac{1}{4}$ feet wide. How many books will Jamar be able to fit?

9. What does "10 $\frac{1}{2}$ inches divided by $5\frac{1}{4}$ inches" mean?

Use an operation to find the answer.

10. What fraction of the flowers in my garden in #4 above are not roses?