Math Definitions

Write the definition for each math term. The following website may be used as a resource: https://www.mathsisfun.com/definitions/index.html

1) Divisor:

2) Dividend:

3) Numerator:

4) Denominator:

5) Order of Operations:

6) Exponents:

7) Integers:

8) Absolute Value:

9) Prime Numbers:

10) Composite Numbers:

11) Factors:

12) Multiples:

13) Prime Factorization:

14) Least Common Multiple:

15) Greatest Common Factor:

16) Perimeter:

17) Area:

18) Surface Area:

19) Volume:

20) Equivalent:

21) Congruent:

22) Mean:

23) Median:

24) Mode:

25) Range:

26) Domain:

27) Range:

28) Input:

29) Output:

Worksheet #1 **Adding Whole Numbers**

Add.

1. $47 + 32$

2. $8 + 5 + 1$

3. $72 + 94 + 3$

4. $25 + 57$

5. $678 + 426$

6. $2846 + 1635$

7. $2504 + 4241 + 2173$

8. $96 + 5748 + 482$

9. $4389 + 3377 + 1689$

10. $24{,}592 + 46{,}268$

11. $587{,}938 + 629{,}777$

12. $99{,}763{,}500 + 2{,}827{,}449$

Worksheet #2 **Subtracting Whole Numbers**

Subtract.

1. $47 - 5$

2. $95 - 31$

3. $68 - 62$

4. $87 - 20$

5. $35 - 8$

6. $652 - 251$

7. $821 - 507$

8. $493 - 37$

9. $776 - 498$

10. $1904 - 625$

11. $70{,}801 - 62{,}762$

12. $1{,}344{,}192 - 804{,}663$

Worksheet #3 **Multiplying Whole Numbers**

Multiply.

1. 72 x 4

2. 39 x 6

3. 81 x 57

4. 46 x 72

5. 205 x 34

6. 376 x 18

7. 800 x 30

8. 493 x 67

9. 776 x 98

10. 2309 x 278

11. 3650 x 400

12. 79,248 x 589

Worksheet #4 **Dividing Whole Numbers**

Divide. Round your answer to the hundredths place.

1. $3\overline{)156}$

2. $7\overline{)588}$

3. $6\overline{)39}$

4. $5\overline{)128}$

5. $4\overline{)1289}$

6. $9\overline{)2230}$

7. $36\overline{)1620}$

8. $61\overline{)427}$

9. $28\overline{)770}$

10. $289\overline{)5801}$

11. $325\overline{)6344}$

12. $76\overline{)30{,}027}$

Worksheet #6 **Fractions: Mixed Numbers**

Identify which of the following are improper fractions.

1 a) $\frac{21}{2}$ b) $\frac{4}{5}$ c) $\frac{83}{126}$ d) $\frac{7}{6}$

Change the mixed numbers to improper fractions. EX: $2\frac{1}{3}$ $3\times2+1$, $6+1$, 7 $\boxed{\frac{7}{3}}$

2 $2\frac{4}{5}$

3 $6\frac{11}{17}$

4 $12\frac{8}{45}$

5 $9\frac{3}{61}$

6 $87\frac{41}{69}$

Change the improper fractions to mixed numbers. EX: $\frac{7}{3}$ $3\overline{)7}$ 2 R1, -6, 1 remainder becomes numerator $\boxed{2\frac{1}{3}}$ → keep same denominator

7 $\frac{8}{3}$

8 $\frac{10}{7}$

9 $\frac{56}{17}$

10 $\frac{132}{11}$

11 $\frac{94}{93}$

*only #1-4

Worksheet #7 **Prime Factorization**

EX: 4 → 1, 2, 4

Find all of the factors.

1. 6
2. 7
3. 45
4. 20

Identify which of the following numbers are prime:

5. a) 14 b) 4 c) 11 d) 9 e) 3 f) 17

Find the prime factorization. Use exponents when applicable.

6. 12
7. 60
8. 18
9. 33
10. 105
11. 125
12. 42

EX. $\frac{2}{10} \div \frac{2}{2} = \boxed{\frac{1}{5}}$ (2 = GCF)

Worksheet #9 **Simplifying Fractions**

Simplify to lowest terms. Use GCF (greatest common factor to simplify.)

1. $\frac{3}{18}$

2. $\frac{15}{25}$

3. $\frac{6}{8}$

4. $\frac{37}{37}$

5. $\frac{66}{99}$

6. $\frac{35}{42}$

7. $\frac{100}{1000}$

8. $\frac{50}{1000}$

9. $\frac{7}{341}$

10. $2\frac{6}{30}$

11. $\frac{36}{12}$

12. $4\frac{29}{29}$

Worksheet #10 **Adding & Subtracting Fractions**

Add or subtract as indicated. Reduce to lowest terms.

*Must have common denominator to add/subtract

1. $\frac{12}{17} + \frac{3}{17}$

2. $\frac{11}{12} + \frac{1}{12}$

3. $\frac{7}{10} + \frac{2}{10} + \frac{8}{10}$

4. $\frac{1}{2} + \frac{2}{3}$

5. $\frac{3}{8} + \frac{1}{2}$

6. $\frac{5}{6} + \frac{1}{4}$

7. $\frac{8}{11} - \frac{5}{11}$

8. $\frac{7}{16} - \frac{5}{16}$

9. $\frac{7}{9} - \frac{2}{3}$

10. $\frac{2}{3} - \frac{1}{6}$

11. $\frac{47}{50} - \frac{3}{10}$

12. $\frac{1}{2} - \frac{1}{5}$

Worksheet #11 **Adding & Subtracting Mixed Numbers**

Add or subtract as indicated. Reduce to lowest terms.

* Need common denominator to add/subtract

1. $1\frac{1}{3} + 2\frac{1}{3}$

2. $3\frac{7}{8} + 1\frac{5}{8}$

3. $22\frac{16}{17} + 4$

4. $16\frac{3}{10} + 5\frac{9}{100}$

5. $2\frac{3}{5} + \frac{9}{10}$

6. $5\frac{1}{4} + 3\frac{5}{8} + 2\frac{1}{2}$

7. $2\frac{2}{3} - \frac{1}{3}$

8. $6\frac{1}{2} - 3$

9. $10 - 3\frac{2}{3}$

10. $9\frac{3}{8} - 5\frac{5}{6}$

11. $1\frac{1}{2} - \frac{7}{10}$

12. $2\frac{1}{2} - 1\frac{3}{4}$

*only #1-5

Worksheet #12 **Multiplying Fractions**

EX. $\frac{\cancel{8}^{1}}{\cancel{16}_{2}} \cdot \frac{\cancel{8}^{1}}{\cancel{9}_{3}} = \boxed{\frac{1}{6}}$

Multiply. Reduce to lowest terms. *Cross reduce. *Multiply numerator. Multiply denominator.

1. $\frac{1}{2} \times \frac{3}{4}$

2. $\left(\frac{5}{9}\right)\left(\frac{3}{10}\right)$

3. $\frac{15}{4} \cdot \frac{12}{5}$

4. $6 \times \frac{2}{3}$

5. $\left(\frac{3}{16}\right)(8)$

6. $\left(\frac{3}{5}\right)^2$

7. $3\frac{7}{8} \cdot \frac{5}{6}$

8. $\left(2\frac{1}{2}\right)\left(3\frac{1}{5}\right)$

9. $\left(1\frac{1}{2}\right)^3$

10. $5\frac{5}{9} \times 2\frac{16}{25}$

Worksheet #15 **Adding and Subtracting Decimals**

Add or subtract as indicated.

1. 1.1 + 2.8

2. 3.5 + 6.14

3. 9.242 + 0.87

4. 1.306 + 5.5 + 46.77

5. 2.01 + 8 + 0.593

6. 0.9 - 0.2

7. 12.66 - 3.41

8. 35.87 - 10.2

9. 40.4 - 6.37

10. 28 - 15.59

Worksheet #16 **Multiplying Decimals**

Multiply.

1. 0.7×0.4

2. 0.12×0.6

3. 31.002×9

4. 0.63×100

5. 0.0085×0.044

6. $702 \cdot 3.19$

7. $(1.504)(1000)$

8. $(0.5)^2$

9. 3.4×10

10. $6.22701 \cdot 0.018$

Worksheet #17 **Dividing Decimals**

Divide. Round your answer to the hundredths place.

1. $9\overline{)211.5}$

2. $0.2\overline{).31}$

3. $4.6\overline{)58}$

4. $1.632 \div 0.08$

5. $8.709 \div 100$

Write as an equivalent decimal. Round to the thousandths place.

6. $\frac{7}{8}$

7. $\frac{5}{21}$

8. $\frac{9}{10}$

9. $\frac{43}{57}$

10. $\frac{81}{20}$

Worksheet #25 **Statistics: Mean, Median & Mode**

Find the mean.

1. 2, 6, 15, 3, 1, 8, 7

2. 34, 57, 68, 12, 9

3. 216, 103

Find the median.

4. 2, 3, 8, 17, 21

5. 102, 138, 194, 320, 322, 387, 569

6. 15, 26, 1701

Find the mode.

7. 2, 3, 3, 3, 3, 5, 7, 7, 9, 16, 16

8. 16, 37, 82, 82, 95, 95, 95, 101, 123

9. 2.1, 3.2, 3.2, 3.6, 3.9, 4.3

*only #1-5 & 11-15

Worksheet #26 **Real Numbers: The Basics**

Fill in the operator (<, > or =) that makes the statement true.

1. 19 __ 5
2. - 3 __ 3
3. 0 __ - 12
4. - 7 __ - 7
5. - 22 __ - 48

Find the number equivalent to the following absolute values.

6. | 6 |
7. | - 5 |
8. | 0 |
9. - | 2 |
10. - | - 8 |

Ex: 8 → opposite [-8]

Find the opposite of each number.

11. 9
12. - 34
13. 0
14. - 5.1
15. $\frac{3}{7}$

Write TRUE or FALSE for each statement.

16. | - 8 | > 0
17. | - 2 | = 2
18. | - 6 | < | - 5 |
19. 3 < - (- 4)
20. - | - 9 | > - | - 15 |