

Math Skills Assessment

Name: _____

SECTION:

Score:

Date: _____

1. Add/Subtraction

2. Mult. /Division

SECTION 2: Multiplication and Division

Score: _____

Multiplication:

1. The product of 22×58 equals the product of 58×22 . True or False? _____

2.

SECTION 3: Fractions/Percentages/Angles

Score: _____

1. Reduce the following fraction to its lowest terms: $8/12$ _____
2. Change the following improper fraction to a mixed number and express your answer in lowest terms: $29/6$: _____

SECTION 4: Metric System

Score: _____

1. Indicate what the following metric symbol stands for: kg _____
2. 10 centimeters = 1 _____
3. 136 km = _____ m

For questions 4-7 fill in the blanks with the SI (International System of Units) base units used to measure the following:

4. Length _____
5. Torque _____
6. Energy _____
7. Power _____
8. If the diameter of a screw is 5 mm, what is its diameter in inches? _____
9. The maximum load that one of your delivery trucks will carry is 10,000 lb. If you have a shipment of 5,000 kg, will the truck be able to transport the entire shipment (Yes or No)?

10. Complete the following conversion: 500 J to foot-pounds _____

SECTION 5: Formulas

Score: _____

1. A mathematical statement that something is equal to something else is a/an _____
2. The distance around a figure is the _____
- 3.

SECTION 6: Introduction to Algebra

Score: _____

1. $-69 - (-12) =$ _____

2. $(+8)(+5) =$ _____

3. Complete the division of the following signed number: $\frac{-20}{+8}$ _____

4. Solve the following problem: $(10 \times 2 + 1) \times (-6 + 1)$ _____

5. Combine like terms in the following expression: $-12ab + 7ab$ _____

6. Combine like terms in the following expression: $3a - b - c + 5a$ _____

7. Complete the following multiplication problem: $82a \times (-13)$ _____

8. Complete the following multiplication problem: $200x \times 3 \times 300y$ _____

9. Perform division in the following problem: $5ab \div ab$ _____

10. Remove parentheses from the following expression and combine like terms (if possible):
 $5a - 2b - (a - 2b)$ _____