# Test 1 A

# Note: Record your answers on the last page

Date: Name:

Grade: /40 Student #

1. A small cabinetmaking firm purchased 3,060 litres of lacquer this year. The year-end inventory indicated that two, 205 litre drums and three 20-litre pails remain. How much lacquer was used during the year?
2. At $4.19 per litre, what is the value of the remaining inventory of lacquer in question 1?
3. How much money was spent on all the lacquer used last year?
4. Express in its lowest terms.
5. Subtract 3 from 6.
6. Multiply by .
7. Divide by .
8. Find of $4.19 correct to the nearest cent.
9. Express 37.5% as a decimal.
10. Find 4% of $12.96 to the nearest cent.
11. $1.50 is what percent of $7.50?
12. An employee’s paycheck is $419.19. she worked 39 hours. How much is she paid per hour to the nearest cent?
13. **BONUS** There are 7 girls in a bus. Each girl has 7 backpacks. In each backpack, there are 7 big cats. For every big cat there are 7 little cats.

Question: How many legs are there in the bus? (This is a real math problem so don’t say that a bus has no legs).

**Answers: (all questions worth 2 marks unless otherwise noted. Question 3a worth 1 mark, 3b worth 1 mark)**

1. 12.
2. 13.
3. 3b 14.
4. 15.
5. 16.
6. 17. /3
7. 18. /3
8. Bonus. /2
9. /3
10. /3

**Test #1 Formulas:**

**Addition** or **Subtraction** of fractions

* 1. Find the common denominator.
  2. Convert fractions to equivalent fractions with the common denominator.
  3. Add or subtract the numerators.
  4. Reduce the product to its lowest terms.

**Multiplication** of fractions

* 1. Multiply the numerators.
  2. Multiply the denominators.
  3. Reduce the product to its lowest terms.

**Division** of fractions

* 1. Invert the fraction you are dividing by and change the division symbol to a multiplication symbol.
  2. Multiply the numerators.
  3. Multiply the denominators.
  4. Reduce the product to its lowest terms.

**Percentage**

P = (Example: What is 20% of 235?)

B = (Example: 75 is 12% of what number?)

R = (Example: What percent is 12 of 56?)

* “P” is the part value.
* “B” is the base value.
* “R” is the percentage.

**Answer Key**

1. $145,826.18
2. 2590 L
3. A) $1,969.3 B) $12,821.40
4. $12,152.18
5. 1
6. 3
7. ¾
8. 4/5
9. 380 sheets
10. 4”
11. 45.68’ or 45’-8 5/32”
12. $296.06
13. $3.49
14. 0.375
15. $0.52
16. 20%
17. $10.68
18. 56 9/16” or 4’-8 9/16”

Bonus) 10,990 legs