Examining Y=KX                    Name:

**Solve each problem.**

1) To determine how many pages would be needed to make 4 books you can use the equation, 296=(74)4. How many pages are in one book?

   1. _____

   2. _____

2) A grocery store paid $250.40 for 8 crates of milk. This can be expressed by the equation Y=KX. How much would they have paid for 3 crates?

   3. _____

   4. _____

3) A florist used the equation 144=(16)9 to determine how many flowers she'd need for 9 bouquets. How many flowers would she need for 5 bouquets?

   5. _____

   6. _____

4) The equation 24.95=(4.99)5 shows how much money you would make for recycling 5 pounds of cans. How much do you make per pound recycled?

   7. _____

   8. _____

5) Olivia used the equation Y=KX to determine she would need 315 beads to create 7 necklaces. How many beads did she use per necklace?

   9. _____

   10. _____

6) The equation 48.12=(12.03)4 shows how much it cost for a company to buy 4 new uniforms. How much would it cost to buy 9 new uniforms?

7) A movie theater used Y={VARKX} to calculate how much money they made selling buckets of popcorn where Y is the total and K is the price per bucket. How much would they make if they sold 4 buckets?

8) An ice cream truck driver used the equation Y=KX to show how much money he made selling 2 ice cream bars. He determined he'd make $5.16. How much did he make per bar sold?

9) A baker used the equation Y=KX to calculate that he had made $68.35 after selling 5 boxes of his cookies for $13.67 each. How much would he have made had he sold 3 boxes?

10) An industrial printing machine printed 576 pages in 3 minutes. How many pages did it print in one minute?

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Name:

**Solve each problem.**

**Answers**

**1)** To determine how many pages would be needed to make 4 books you can use the equation, 296=(74)4. How many pages are in one book?

1. _____ **74** _____

2. _____ **$93.90** _____

**2)** A grocery store paid $250.40 for 8 crates of milk. This can be expressed by the equation Y=KX. How much would they have paid for 3 crates?

3. _____ **80** _____

4. _____ **$4.99** _____

**3)** A florist used the equation 144=(16)9 to determine how many flowers she'd need for 9 bouquets. How many flowers would she need for 5 bouquets?

5. _____ **45** _____

6. _____ **$108.27** _____

**4)** The equation 24.95=(4.99)5 shows how much money you would make for recycling 5 pounds of cans. How much do you make per pound recycled?

7. _____ **$28.60** _____

8. _____ **$2.58** _____

**5)** Olivia used the equation Y=KX to determine she would need 315 beads to create 7 necklaces. How many beads did she use per necklace?

9. _____ **$41.01** _____

10. _____ **192** _____

**6)** The equation 48.12=(12.03)4 shows how much it cost for a company to buy 4 new uniforms. How much would it cost to buy 9 new uniforms?

**7)** A movie theater used Y={VARKX} to calculate how much money they made selling buckets of popcorn where Y is the total and K is the price per bucket. How much would they make if they sold 4 buckets?

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