

Assignment 1.1

Solve each problem.

1) 66 is what percent of 133?

2) 43 is what percent of 160?

3) 132 is what percent of 81?

4) 1 is what percent of 142?

5) What is 94% of 142?

6) 350% of 58.2 is what?

7) What is 199% of 37?

8) 8% of 96 is what?

9) 92% of what is 123?

10) 290% of what is 61?

Solve each proportion.

11) $\frac{m}{8} = \frac{10}{4}$

12) $\frac{9}{2} = \frac{v}{8}$

13) $\frac{2}{k} = \frac{8}{9}$

14) $\frac{2k}{4} = \frac{7}{10}$

$$15) \frac{n-2}{10} = \frac{8}{6}$$

$$16) \frac{2}{10} = \frac{v+8}{3}$$

$$17) \frac{8}{20} = \frac{4x-8}{30}$$

$$18) \frac{17}{29} = \frac{48}{\frac{x}{7} + 5}$$

19) 8 bottles of water cost \$1.99. Determine the cost per bottle.

20) 15 ponies cost \$52.50. Determine the cost per pony.

21) $\frac{1}{6}$ of a stove costs \$120. Determine the cost per stove.

22) 5 kgs of coffee rice costs \$13.75. Determine the cost per pound. (1kg = 2.2 pounds)

23) A worker can plant 24 trees in 10 minutes. How long will it take to plant 84 trees?

24) A store sells 6 toasters and makes a profit of \$50. How much profit would they make if they sell 40 toasters?

25) Jimmy drives 340km in 8 hours. How far does he drive in 12 hours?

26) Jimmy drives 840km in 6 hours. How long does it take him to drive 35km?

- 27) A store buys a bed for \$200 and marks it up 25%. Determine the selling price.
- 28) A store buys a frog for \$1.20 and marks it up 350%. Determine the selling price.
- 29) A store buys a donkey for \$600 and sells it for \$720. Determine the percent mark up.
- 30) A store buys a toothpick for \$2.30 and sells it for \$2.99. Determine the percent mark up.
- 31) A store sells a door for \$140 plus GST (5%). Determine the price, including tax.
- 32) A store sells a record for \$350 plus GST (5%) and PST (7%). Determine the price, including tax.
- 33) A store sells a dress for \$85 at the regular price. They offer a 10% discount. Determine the sale price.
- 34) A store sells a collectable Darth Vader for \$65 at the regular price. They offer a 60% discount. Determine the sale price.
- 35) A store is having a BOGO (buy one get one half off) sale. A customer buys 2 products that cost \$80 and \$60. Determine the total cost for the 2 items.
- 36) A store offers its members a 30% discount. A membership costs \$50 per year. A customer determines that she spends \$500 at the store every year. How much will she save? Is it a good idea to get the membership?

37) A store sells a blender for \$90 regular price. It is on sale for \$72. Determine the percent discount.

38) A store sells a pure bred, champion hamster for \$180 at the regular price. It is on sale for \$162. Determine the percent discount.

39) Convert \$100 (Can) into American Dollars

40) Convert \$100 (Can) into British Pounds

41) Convert 300 Pesos into Canadian Dollars.

42) Convert 300 Pesos into Euros.

43) William has 50 British Pounds. Guillome has 1100 Pesos. Who has more money and by how much? Give your answer in Canadian Dollars.

44) Jimmy can buy a computer online from a Canadian retailer for \$800, plus GST (5%), and \$40 shipping (no GST on shipping). He can buy the same computer from an American retailer for \$650 (US), plus \$90 (US) shipping. Which computer is cheaper and by how much? Give your answer in Canadian dollars.

Answers to Assignment 1.1

- | | | | |
|--|------------------------------|-----------------------|---------------------|
| 1) 49.6% | 2) 26.9% | 3) 163% | 4) 0.7% |
| 5) 133.5 | 6) 203.7 | 7) 73.6 | 8) 7.7 |
| 9) 133.7 | 10) 21 | 11) {20} | 12) {36} |
| 13) {2.25} | 14) {1.4} | 15) {15.33} | 16) {-7.4} |
| 17) 5 | 18) 538.18 | 19) \$0.25 per bottle | 20) \$3.50 per pony |
| 21) \$720 per stove | 22) \$1.25 per pound | 23) 35 minutes | 24) \$333.33 |
| 25) 510km | 26) 0.25 hours or 15 minutes | 27) \$250 | |
| 28) \$5.40 | 29) 20% | 30) 30% | 31) \$147 |
| 32) \$392 | 33) \$76.50 | 34) \$26 | 35) \$110 |
| 36) \$150, yes it is worth it | 37) 80% | 38) 11.1% | |
| 39) \$80.30 | 40) 52.20 Pounds | 41) \$25.20 | 42) 17.70 Euros |
| 43) \$95.80,\$92.40. William by \$3.40 | | | |
| 44) \$880 (Can), \$921.30 (Can). Canadian retailer is cheaper by\$41.30. | | | |