Word Problems (Division)

Example 1.
Problem: You and two business partners have a business worth $750,000. Someone offers to buy it. You and your partners decide to take the offer and use the money (the "capital") to start a new business. How much would you each get from the sale?

Solution: You need to divide the $750,000 among you and your two partners. In other words, you need to divide the $750,000 among 3 people.

So you calculate $750,000/3 = $250,000.

You each get $250,000.

Example 2.
Problem: You cater weddings, and have 12 days to finish an order of 500 elaborately decorated chocolate truffles. You and your partner have time (you have other events to work on, too!) to make 48 per day. Can you finish before the event?

Solution: You need to see how many 48s are in the 500. Each 48 represents 1 day. So you divide:

$$500/48 = 10.42 \text{ days.}$$

Good! So, yes, you and your partner can finish on time! You will not need to hire someone to help with the rush. And you will have a day and a half to spare in case you get behind.

Exercises.

1. You have $8. You want to split it amongst three friends and yourself. How much does each person get?

2. You and two partners have a company worth $569,432. If someone buys the company from you, how much would you each get?

3. You want to read a book before you go on vacation. You have 56 pages left to read. If you have time to read 14 pages per day, how many days will it take you to finish the book?

4. You need to make 432 chocolate coconut tarts for a party. You can make 48 per day. How many days in advance should you start making the tarts?

5. You and three business associates are buying a company worth $147,030, and splitting the cost evenly amongst yourselves. How much would you each pay?

Answers

1. $2.

2. $189, 810.67

3. 4 days

4. 9 days

5. $36,757.50