Ratio, proportion, and Time

1. **6 tickets for the theatre cost $60. Calculate the cost of:**

   a. **1 ticket**
   b. **3 tickets**
   c. **11 tickets**

2. **A cleaner charge $72 for 6 hours of cleaning.**

   a. **How much does the cleaner charge for 2 hours of cleaning?**
   b. **How much does the cleaner charge for 9 hours of cleaning?**

3. **1 foot is approximately equivalent to 25cm.**

   Calculate the approximate length of:
   a. **3 feet in cm**
   b. **8 feet in cm**
   c. **250 cm in feet**
   d. **105 cm in feet**

4. **There are 8 pints in 1 gallon.**

   Calculate the number of:
   a. **Pints in 3 gallons**
   b. **Gallons in 40 pints**
   c. **Gallons in 20 pints**

5. **Complete the sentences with the key terms from the box.**

Ratio dividing part simplify proportion whole multiplying common factor

A …… compares two quantities directly to each other whereas a …….
Compares a single quantity to the …… .

You can …….. both Proportions and ratios by dividing by a …… ……

You can use proportional reasoning to solve problems involving finding the value per item by …… or, if you know the value of one item, finding the value of more items by ……

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6. How long until the next hour?

a/13:45 - minutes

b/12:23 - minutes

	12 hour time	24 hour time

7. a. half past 6 in the morning

b. half past midday

8.

	Start time	Finishing Time	Duration
Movie A	9:45 a.m	11:15 a.m	hr min
Movie B	4:30 p.m	18:15	hr min

9. Calculate the duration between clocks

Clock A	Clock B	Duration
11:45 a.m.	11:45 p.m	hr min
11:45 a.m.	23:45	hr min

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