ANSWERS

BAR MODELS

Instructions: For each problem, draw a bar model to represent the ratio. Then, solve the problem by determining the value of one part and using it to find the required quantities. Write your answer in the space provided.

1) The ratio of apples to pears in a fruit basket is 3:2. If there are 18 apples, how many pears are there?

Solution:

Total parts for apples= **3**

Value of one part = $\frac{18\ apples}{3}$ = **6 apples per part**

Total parts for pears = **2**

Number of pears = **2×6=12**

Answers: **There are 12 pears.**

2) The ratio of small boxes to large boxes in a warehouse is 4:3. If there are 32 small boxes, how many large boxes are there?

Solution:

Total parts for small boxes = **4**

Value of one part = $\frac{32\ small\ boxes}{4}$ = **8 boxes per part**

Total parts for large boxes = **3**

Number of large boxes = **3×8=24**

Answers: **There are 24 large boxes.**

3) The ratio of chairs to tables in a room is 5:1. If there are 45 chairs, how many tables are there?

Solution:

Total parts for chairs = **5**

Value of one part = $\frac{45\ chairs}{5}$ = **9 chairs per part**

Total parts for tables = **1**

Number of tables = **1×9= 9**

Answers: **There are 9 tables.**

How Did You Do? ☺ 😐 ☹