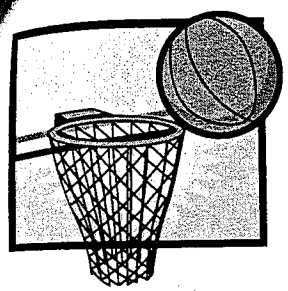

Basketball Problem

There are 54 basketball players in a league. There are enough players to make 6 teams with an equal number of players on each team. How many players are on each team?

Diagram and Equation Practice (Multiplication and Division)

(pp. 1 of 2)

Use the table below to help you solve the problem.

Problem: Sharon rode her bicycle the same number of miles each day for 8 days. If at the end of the 8 days, Sharon rode 168 miles, how many miles did she ride each day?
Understand the problem/plan: What are you trying to find? What do you know?
Diagram: Create a diagram to model this problem. Use the letter *m* to represent what you are trying to find.
Equation: Write an equation based on the diagram you have created.
Solve:

Diagram and Equation Practice (Multiplication and Division)

(pp. 1 of 2) **KEY**

Use the table below to help you solve the problem.

Problem:

Sharon rode her bicycle the same number of miles each day for 8 days. If at the end of the 8 days, Sharon rode 168 miles, how many miles did she ride each day?

Understand the problem/plan:

What are you trying to find? *the number of miles Sharon rode each day*

What do you know? *the total number of miles she rode and the number of days she rode*

Diagram:
Create a diagram to model this problem. Use the letter *m* to represent what you are trying to find.
Diagrams may vary, but could include:

m	*m*	*m*	*m*	*m*	*m*	*m*	*m*
168 total miles							

OR

Area model showing 168 separated into 8 equal groups

Equation:
Write an equation based on the diagram you have created.

168 total miles ÷ 8 days = m miles per day

Solve:

168 total miles ÷ 8 days = 21 miles per day

Diagram and Equation Practice (Multiplication and Division)

(pp. 2 of 2)

Use the table below to help you solve the problem.

Problem: Raul took his sister Naomi to the school fair. Raul is 3 times as old as Naomi. If Naomi is 6 years old, how old is Raul?
Understand the problem/plan: What are you trying to find? What do you know?
Diagram: Create a diagram to model this problem. Use the letter *R* to represent what you are trying to find.
Equation: Write an equation based on the diagram you have created.
Solve:

Diagram and Equation Practice (Multiplication and Division)

(pp. 2 of 2) **KEY**

Use the table below to help you solve the problem.

Problem:

Raul took his sister Naomi to the school fair. Raul is 3 times as old as Naomi. If Naomi is 6 years old, how old is Raul?

Understand the problem/plan:

What are you trying to find? ***Raul's age***

What do you know? ***Naomi's age and how many times older Raul is than Naomi***

Diagram:
Create a diagram to model this problem. Use the letter *R* to represent what you are trying to find.
Diagrams may vary, but could include:

6	*6*	*6*
R – Raul's age		

OR

Area model with the dimensions 6 x 3

Equation:
Write an equation based on the diagram you have created.

6 (Naomi's age) x 3 = R - Raul's age

Solve:

6 (Naomi's age) x 3 = Raul's age - 18 years old