Name _____   Date _____

Unit Rates and Ratios - Guided Lesson Explanation

Explanation#1

Step 1) First see what is being asked.

Step 2) Tournaments played in 3 weeks = 12

Tournaments played in 1 week = 12 / 3

$$= 4$$

Total number of tournaments = unit rate X no. of weeks

20   =   4   X   n

n   =   20 / 4

Number of weeks   =   5

In 5 weeks, he can play 20 tournaments.

Explanation#2

Step 1) First see what is being asked.

a) Step 2)

a. 16 pens in 4 pen boxes = | 4 | pens in 1 box.

Number of pens in 1 box = 16 / 4

Number of pens in 1 box = 4

b. 81 toffees in 9 packets = | 9 | toffees in 1 packet.

Number of toffees in 1 packet = 81 / 9

Number of toffees in 1 packet = 9

c. 70 hutch mobiles in 5 exhibitions = $\boxed{14}$ hutch mobiles in 1 exhibition.

Number of mobiles in 1 exhibition = 70 / 5

Number of mobiles in 1 exhibition = 14

Explanation#3

Step 1) First see what is being asked.

Step 2) For 18 guests Barbara spent = $144

For 1 guest she spent   = 144 / 18

                                          = $ 8

Total cost   =   unit rate X no. of weeks

$176   =   8   X   n

n   =   176 / 8

# of guests   =   22

22 guests will there, if she can afford to spend $176.