Lesson 9 Complete the drawings and write expressions to solve the word problems: a) There are 5 cookies in each of 6 round ? =boxes and 4 cookies in each of 7 square R S boxes. How many cookies are there in all the boxes? 5×6 4×7 b) Jack puts 5 pieces of candy into each of 42 6 gift bags and the rest of the candy into a box. How many pieces of candy did Box Bags he put in the box if he had a total of 42 pieces in the beginning? ? =c) There are 3 apples in each of *q* apple Р А baskets and 5 pears in each of w pear bags. How many fruit are in total? d) There are a total of 75 apples packed in **Basket** Bags green bags and a basket. Each of the 7 green bags contains 5 apples. How many apples are in the basket? e) There are *m* apples in total packed in Basket Bags green bags and a basket. Each of *k* green bags contains 5 apples. How many apples are in the basket?

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2 Pick the diagram that represents each equation. Use the diagram to solve the equations and then check your answer.



Sense and Nonsense

3 There are 63 kg of bananas packed in m identical boxes. There are 75 kg of apples packed in k identical bags.

Explain the expressions that produce meaningful results and identify the ones that do not.



Expression	Meaning
63 ÷ m	Mass of bananas in
63 ÷ k	Nonsense!
63 ÷ m × 7	
75 ÷ k	
$75 \div \mathbf{m} \times \mathbf{w}$	
63 + 75	
63 + m	
m + k	



Coordinates and Motion



What do you notice about the coordinates of the points J_1 and J_2 ?

The motion of the points A_1 and B_1 produces points A_2 and B_2 respectively. Plot the points A_2 and B_2 and find their coordinates.

What do you notice about the coordinates of A_2 and B_2 ?

Moving point J_1 five cells down produces point J_2 .

What do you notice about the coordinates of the points J_1 and J_2 ?

The motion of the points K_1 and P_1 produces points K_2 and P_2 respectively. Plot the points K_2 and P_2 and find their coordinates.

What do you notice about the coordinates of K_2 and P_2 ?



- a) Students hiked 5 km every hour. How far did they go in 3 hours?
- b) A river flows 7 km in an hour. How long will it take a raft to drift 28 km downstream?







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