Abdul has 16 apples. A tray holds 4. There are 4 trays.

What has been shared or divided into sets or groups?
How many sets are there?
How many of the things being divided are in each set?

1. a) What has been shared or divided into sets?
   How many sets? ______
   How many in each set? ______

   b) What has been shared or divided into sets?
   How many sets? ______
   How many in each set? ______

2. | What has been shared or divided into sets? | How many sets? | How many in each set? |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>a) 8 books for each student</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32 books</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) 4 flowers in each vase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 flower vases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24 flowers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) 5 apples on each tray</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 apples</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 trays</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) 3 trees in each row</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 rows</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 trees</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Using circles for sets and dots for things, draw a picture to show...
   a) 6 sets
      3 things in each set
   b) 4 groups
      5 things in each group
   c) 2 sets
      9 things in each set
Amanda has 16 cookies. There are two ways she can share (or divide) her cookies equally.

**Method 1:** She can decide how many sets (or groups) of cookies she wants to make.

*Example:*
Amanda wants to make 4 sets of cookies. She draws 4 circles. 
She then puts one cookie at a time into the circles until she has placed all 16 cookies.

**Method 2:** She can decide how many cookies she wants to put in each set.

*Example:*
Amanda wants to put 4 cookies in each set. She counts out 4 cookies. 
She keeps counting out sets of 4 cookies until she has placed all 16 cookies into sets.

1. **Share 24 dots equally. How many dots are in each set?**
   *HINT: Place one dot at a time.*
   a) 4 sets: 
   There are ____ dots in each set.
   b) 6 sets: 
   There are ____ dots in each set.

2. **Share the shapes equally among the sets.**
   *HINT: Count the shapes first. Divide by the number of circles.*
   ![Shapes]

   a) 
   b) 

3. **Share the squares equally among the sets.**

   ![Squares]

4. **Group the lines so that there are three lines in each set.** Say how many sets there are.
   a) 
   There are ____ sets.
   b) 
   There are ____ sets
   c) 
   There are ____ sets.

5. **Group 18 candies so that...**
   a) there are 9 candies in each set.
   b) there are 6 candies in each set.
1. In each question, fill in what you know. Write a question mark for what you don’t know.

<table>
<thead>
<tr>
<th>What has been shared or divided into sets?</th>
<th>How many sets? or How many in each set?</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Beth has 42 marbles.</td>
<td>marbles</td>
</tr>
<tr>
<td>She puts 6 marbles in each jar.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>There are 6 marbles in each set</td>
</tr>
<tr>
<td>b) 30 people in 6 cars.</td>
<td>people</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>There are 6 sets of people.</td>
</tr>
<tr>
<td>c) Jenny has 18 stickers.</td>
<td></td>
</tr>
<tr>
<td>She gives them to her 2 sisters.</td>
<td></td>
</tr>
<tr>
<td>d) Mike has 40 pictures.</td>
<td></td>
</tr>
<tr>
<td>He puts 8 in each page of the album.</td>
<td></td>
</tr>
<tr>
<td>e) 24 children are sitting at 3 tables.</td>
<td></td>
</tr>
<tr>
<td>f) 35 flowers are in 5 vases.</td>
<td></td>
</tr>
</tbody>
</table>

7. Divide the dots into sets.
HINT: If you know the number of sets, start by drawing circles for sets. If you know the number of things in each set, fill one circle at a time with the correct number of dots.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a) 21 dots; 3 sets</td>
<td>b) 14 dots; 7 dots in each set</td>
</tr>
<tr>
<td>c) 36 dots; 9 dots in each set.</td>
<td>d) 20 dots; 4 sets.</td>
</tr>
</tbody>
</table>
NS6-33: Dividing by Skip Counting

You can solve the division problem 12 ÷ 4 = ? by skip counting on the number line.

If you divide 12 into sets of size 4, how many sets do you get? The number line shows that it takes three skips of size 4 to get 12.

4 + 4 + 4 = 12 so... 12 ÷ 4 = 3

1. Use the number line to find the answer to the division statement. Be sure to draw arrows to show your skip counting.

   a) 8 ÷ 2 = ___

   b) 16 ÷ 8 = ___

2. What division statement does the picture represent?

   a) ___

   b) ___

3. You can also find the answer to a division question by skip counting on your fingers.

   For instance, to find 45 ÷ 9, count by 9s until you reach 45... the number of fingers you have up when you say "45" is the answer.

   Find the answers by skip counting on your fingers.

   a) 35 ÷ 5 = ___  b) 12 ÷ 6 = ___  c) 32 ÷ 8 = ___  d) 21 ÷ 7 = ___  e) 45 ÷ 5 = ___

   f) 36 ÷ 4 = ___  g) 25 ÷ 5 = ___  h) 42 ÷ 6 = ___  i) 27 ÷ 3 = ___  j) 16 ÷ 2 = ___

   k) 36 ÷ 6 = ___  l) 35 ÷ 7 = ___  m) 18 ÷ 3 = ___  n) 21 ÷ 3 = ___  o) 40 ÷ 8 = ___

4. 24 flowers are in 6 bouquets. How many flowers in each bouquet? ______

5. 36 trees are in 9 rows. How many trees are in each row? ______

6. Amy uses 8 pencils in a month. How many months will she take to use 32 pencils? ______
Vin-Chi wants to share 13 pancakes with 3 friends. He sets out 4 plates, one for himself and one for each of his friends. He puts one pancake at a time on a plate.

Thirteen pancakes cannot be shared equally into 4 sets. Each person gets 3 pancakes, but one is left over. This is the remainder.

\[ 13 \div 4 = 3 \text{ Remainder 1} \quad \text{OR} \quad 13 \div 4 = 3 \text{ R1} \]

NOTE: R means "remainder"

1. Can you share 9 pancakes equally onto 2 plates? Show your work using dots for pancakes and circles for plates.

2. For each question, share the dots as equally as possible among the circles.
   a) 10 dots in 3 circles
   b) 17 dots in 4 circles

   _____ dots in each circle; _____ dots remaining
   _____ dots in each circle; _____ dots remaining

3. Share the dots as equally as possible. Draw a picture and write a division statement.
   a) 13 dots in 3 circles
   b) 19 dots in 3 circles
   c) 36 dots in 5 circles
   d) 33 dots in 4 circles
   e) 43 dots in 7 circles

4. Eight friends want to share 25 apples among them. How many apples will each friend get? How many will be left over?

5. Three siblings have more than 5 and less than 13 animal posters. They share the posters evenly with no remainder. How many posters do they have? (Show all the possible answers.)

6. Find four different ways to share 19 cookies into equal groups so that one is left over.