Fraction Strategies

Birthday Cakes

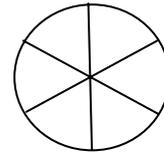| AC |
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> I am learning to use multiplication to find a fraction of a set

Example:

Charlie has cut his birthday cake into six equal parts. He has 18 candles to put on it, so each piece has the same number of candles. How many candles are on each piece?

Cherie thinks: "There are six pieces, and I know 6 x **3** = 18"
She writes down $\frac{1}{6}$ **of 18 = 3**

Exercise 1:

> ➢ Solve these problems by drawing or thinking about parts of a cake.
> ➢ Make sure you write down a mathematical statement like the example above. (NOT just the answer!)

Set A

How many candles are on each piece of cake when there are:

1) 6 pieces, and 30 candles

2) 4 pieces and 32 candles

3) 9 pieces and 18 candles

4) 8 pieces and 24 candles

5) 8 pieces and 40 candles

6) 5 pieces and 55 candles

7) 12 pieces and 24 candles

Set B

Calculate the fractions of these amounts:

(1) $\frac{1}{3}$ of 24 =

(2) $\frac{1}{4}$ of 16 =

(3) $\frac{1}{9}$ of 27 =

(4) $\frac{1}{5}$ of 35 =

(5) $\frac{1}{8}$ of 64 =

(6) $\frac{1}{7}$ of 42 =

(7) $\frac{1}{9}$ of 36 =

Fraction Strategies Birthday cakes Answers

Exercise 1

Set A

1. 5
2. 8
3. 2
4. 3
5. 5
6. 11
7. 2

Set B

1. 8
2. 4
3. 3
4. 7
5. 8
6. 6
7. 4