

Fraction Strategies

Birthday Cakes

I am learning to use multiplication to find a fraction of a set

AC

EA

AA

AM

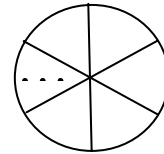
AP

Example:

Cherie solves this problem:

"Charlie has cut his birthday cake into sixths. One piece has three candles on it. How many candles are on the whole cake?"

Cherie thinks: "There are six pieces, so $6 \times 3 = 18$ "
She writes down $\frac{1}{6}$ of $\underline{\quad} = 3$, so $\underline{\quad} = 18$



Exercise 1

- Solve these problems by drawing or thinking about parts of a cake.
- Make sure you write down a mathematical statement and the answer like the example above.

Set A

How many candles are on a cake when there are:

- 1) 6 people, and 3 candles each
- 2) 4 people and 5 candles each
- 3) 9 people and 3 candles each
- 4) 7 people and 5 candles each
- 5) 8 people and 5 candles each
- 6) 4 people and 8 candles each
- 7) 9 people and 6 candles each

Set B

Find these amounts:

- (1) $\frac{1}{2}$ of $\underline{\quad} = 15$
- (2) $\frac{1}{3}$ of $\underline{\quad} = 8$
- (3) $\frac{1}{5}$ of $\underline{\quad} = 4$
- (4) $\frac{1}{4}$ of $\underline{\quad} = 9$
- (5) $\frac{1}{7}$ of $\underline{\quad} = 6$
- (6) $\frac{1}{6}$ of $\underline{\quad} = 9$
- (7) $\frac{1}{9}$ of $\underline{\quad} = 8$
- (8) $\frac{1}{8}$ of $\underline{\quad} = 7$

Fraction Strategies Birthday Cake Answers

Exercise 1

Set A

1. 18
2. 20
3. 27
4. 35
5. 40
6. 32
7. 54

Set B

1. 30
2. 24
3. 20
4. 36
5. 42
6. 54
7. 72
8. 56