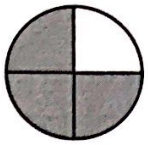
NS5-61: Equal Parts and Models of Fractions

Fractions name equal parts of a whole.

The pie is cut into 4 equal parts.

3 parts out of 4 are shaded.

$\frac{3}{4}$ of a pie is shaded.



$\frac{3}{4}$

The **numerator** (3) tells you how many parts are counted.

The **denominator** (4) tells you how many parts are in whole.

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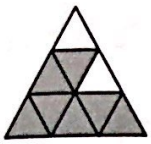
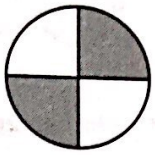
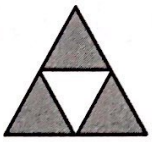
1. Name the fraction shown by the shaded part of each image.

a) 

b) 

c) 

d) 

2. You have $\frac{5}{8}$ of a pie.

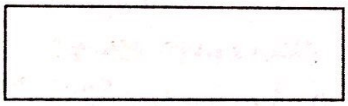
a) What does the bottom (denominator) of the fraction tell you?

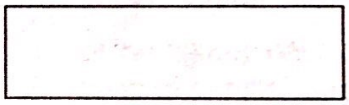
_____

b) What does the top (numerator) of the fraction tell you?

_____

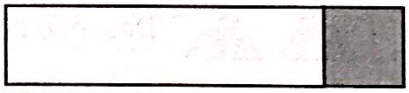
3. Use a **ruler** to divide each box into equal parts.

a) 4 equal parts 

b) 5 equal parts 

4. Using a **ruler**, find what fraction of each of the following boxes is shaded.

a)  ____ is shaded

b)  ____ is shaded

5. Using a **ruler**, complete the following figures to make a whole.

a) $\frac{1}{3}$

b) $\frac{1}{2}$

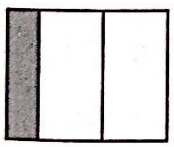
c) $\frac{3}{5}$

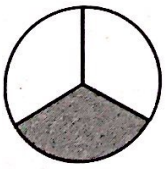
6. Each of the lines below is $\frac{1}{3}$ of a line. Using a **ruler**, fill in the rest to make a whole line.

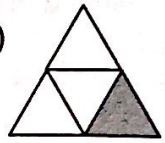
a) ____

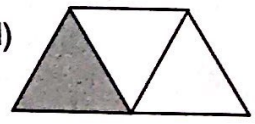
b) _____

7. Explain why each picture does (or does not) show $\frac{1}{3}$.

a) 

b) 

c) 

d) 

NS5-62: Equal Parts of a Set

Fractions can name parts of a set: $\frac{3}{5}$ of the figures are triangles, $\frac{1}{5}$ are squares and $\frac{1}{5}$ are circles.

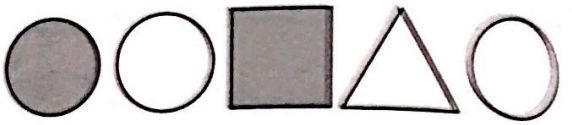
1. Fill in the blanks.

a)

_____ of the figures are triangles.

_____ of the figures are shaded.

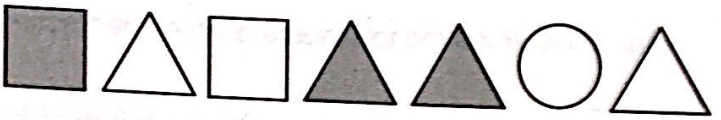
b)



_____ of the figures are squares.

_____ of the figures are shaded.

2. Fill in the blanks.



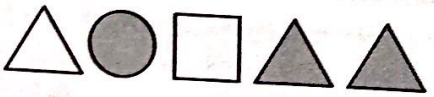
a) $\frac{4}{7}$ of the figures are _____

b) $\frac{2}{7}$ of the figures are _____

c) $\frac{1}{7}$ of the figures are _____

d) $\frac{3}{7}$ of the figures are _____

3.



Describe this picture in two different ways using the fraction $\frac{3}{5}$.

4. A football team wins 7 games and loses 5 games.

a) How many games did the team play? _____

b) What fraction of the games did the team win? _____

c) Did the team win more than half its games? _____

NS5-62: Equal Parts of a Set *(continued)*

5.

	Number of boys	Number of girls
The Smith Family	2	3
The Sinha Family	1	2

a) What fraction of the children in each family are boys?

Smiths _____ Sinhas _____

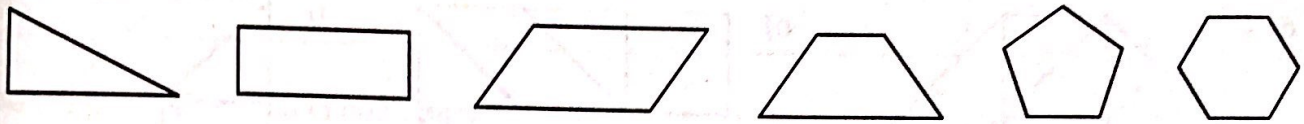
b) What fraction of all the children are boys? _____

6. What fraction of the letters in the word "Canada" are ...

a) vowels? _____ b) consonants? _____

7. Express 7 months as a fraction of one year: _____

8. Write a fraction for each statement.



a) ☐ of the figures have 4 vertices

b) ☐ of the figures have more than 4 sides

c) ☐ of the figures have exactly one right angle

d) ☐ of the figures have exactly 2 pairs of parallel sides

9. Write two fraction statements for the figures in Question 8 above.

10. Draw a picture to solve the puzzle.

a) There are 7 circles and squares.

$\frac{2}{7}$ of the figures are squares.

$\frac{5}{7}$ of the figures are shaded.

Three circles are shaded.

b) There are 8 triangles and squares.

$\frac{6}{8}$ of the figures are shaded.

$\frac{2}{8}$ of the figures are triangles.

One triangle is shaded.