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## Lesson 1: Mixed Numbers

1. Describe each picture as an improper fraction and as a mixed number.

	b)
c)	

- 2. Write an improper fraction for each mixed number. Use Pattern Blocks to help.
  - a)  $2\frac{1}{3}$  b)  $1\frac{4}{6}$  c)  $1\frac{2}{3}$
  - d)  $3\frac{1}{2}$  e)  $3\frac{1}{6}$  f)  $2\frac{5}{6}$
- 3. Write a mixed number for each improper fraction. Use Pattern Blocks to help.

a)	<u>7</u> 6	b)	<u>8</u> 3	c)	<u>7</u> 2
d)	<u>3</u> 2	e)	<u>17</u> 6	f)	<u>10</u> 3

- **4.** Jeff baked  $3\frac{1}{2}$  dozen cookies. How many cookies did Jeff bake? Draw a picture to show your work.
- 5. Suppose you have a  $\frac{1}{3}$ -cup measuring cup. How many times would you have to fill the cup to measure  $3\frac{2}{3}$  cups of flour? Draw a picture to show your work.
- 6. Write an improper fraction for each mixed number and a mixed number for each improper fraction.
- a)  $2\frac{3}{4}$  b)  $1\frac{7}{8}$  c)  $4\frac{3}{5}$ d)  $\frac{9}{4}$  e)  $\frac{15}{12}$  f)  $\frac{24}{5}$

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Lesson 1, Question 7

Step 1	How many eighths are in $\frac{1}{2}$ of a pie?
	In a whole pie?
	Write 3 fractions, with denominator 8, that are greater than $\frac{1}{2}$ but less than 1.
Step 2	How many sixths are in $\frac{1}{2}$ a pie? In a whole pie?
	Write 2 fractions, with denominator 6, that are greater than $\frac{1}{2}$ but less than 1.
Step 3	After the party, more than $2\frac{1}{2}$ but less than 3 pies were left. Look at your answers to <i>Steps 1</i> and <i>2</i> . How much pie might have been left?

## Extra Practice: Lesson 5.3: Add and subtract fractions and mixed numbers

1. Add.

**a**)  $\frac{1}{4} + \frac{3}{5}$  **b**)  $\frac{5}{8} + \frac{1}{3}$  **c**)  $\frac{2}{5} + \frac{1}{8}$  **d**)  $\frac{3}{10} + \frac{1}{3}$ 

2. These are fractions of the students in a class who chose their favourite sport.

Baseball	Basketball	Hockey	Snowboarding	Swimming	Tennis
$\frac{1}{4}$	$\frac{1}{9}$	$\frac{1}{3}$	<u>1</u> 6	$\frac{1}{18}$	$\frac{1}{12}$

Calculate the total fraction of the class that chose:

- a) sports played with a ball
- **b)** sports played on a court
- c) winter sports
- d) sports that use a net
- 3. Which sum is greater?

How do	you kno	w?
$\frac{7}{8} + \frac{3}{4}$	or	$\frac{5}{6} + \frac{3}{5}$

4. Subtract.

	<b>a)</b> $\frac{4}{6} - \frac{3}{8}$	<b>b)</b> $\frac{5}{6} - \frac{5}{9}$	<b>c)</b> $\frac{3}{4} - \frac{1}{6}$	<b>d</b> ) $\frac{3}{2} - \frac{5}{6}$	e) $\frac{4}{5} - \frac{1}{4}$ f)	$\frac{9}{10} - \frac{2}{3}$	<b>g</b> ) $\frac{7}{4} - \frac{8}{5}$
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- **5.** Two-fifths of the students in a class voted for a trip to the zoo. One-third voted for a trip to the museum.
  - a) Which trip had more votes?
  - b) What is the difference of the fractions?
  - c) What fraction of the class did not vote?
- 6. For each pair of numbers, find a common denominator. Then add.

**a)**  $6\frac{2}{3} + 1\frac{1}{5}$  **b)**  $2\frac{3}{4} + 5\frac{1}{8}$  **c)**  $1\frac{4}{7} + 8\frac{1}{2}$  **d)**  $3\frac{3}{5} + 3\frac{1}{4}$ 

7. subtract

**a)**  $7\frac{1}{2} - 3\frac{1}{4}$  **b)**  $12\frac{3}{4} - 6\frac{3}{8}$  **c)**  $4\frac{11}{16} - 2\frac{3}{8}$  **d)**  $4\frac{2}{3} - 1\frac{1}{2}$ 

## Lesson 3.4: Multiplying Mixed Numbers

1. Write the mixed number and improper fraction represented by each picture.



- **2.** Use estimation. Which suggested estimate is closer to the given product? **a)**  $3\frac{2}{3} \times 1\frac{7}{9}$  3 or 8 **b)**  $2\frac{2}{5} \times 4\frac{1}{18}$  8 or 15 **c)**  $2\frac{9}{11} \times \frac{15}{16}$  3 or 6
- **3.** Multiply. Estimate to check.

**a)**  $2\frac{3}{5} \times 1\frac{1}{2}$  **b)**  $4\frac{6}{8} \times 3\frac{2}{3}$  **c)**  $5\frac{1}{6} \times 2\frac{3}{4}$  **d)**  $\frac{5}{8} \times 3\frac{4}{5}$ 

**4.** Amber made  $5\frac{3}{4}$  pitchers of iced tea for her friends.

They drank  $\frac{2}{3}$  of the iced tea.

How many pitchers of iced tea did they drink?

**5.** Carlos has  $1\frac{1}{2}$  cups of flour.

He uses  $\frac{3}{4}$  of the flour to make pizzas for the school fundraiser. How much flour does Carlos use? Master 3.32

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## **Lesson 3.6: Dividing Fractions**

- 1. Write the reciprocal of each fraction. **d)**  $\frac{17}{12}$ **b)**  $\frac{8}{7}$ **c)**  $\frac{9}{11}$ **a)**  $\frac{1}{3}$ Use a copy of each number line to illustrate each quotient. 2. **a)**  $\frac{10}{8} \div \frac{5}{8}$ 2 **b)**  $\frac{12}{10} \div \frac{1}{5}$  $1\frac{1}{2}$ **c)**  $\frac{7}{9} \div \frac{2}{3}$ 0 **d)**  $\frac{7}{12} \div \frac{1}{4}$ 0 3. Use multiplication to find each quotient. **b)**  $\frac{3}{8} \div \frac{2}{5}$ **a)**  $\frac{7}{5} \div \frac{1}{3}$ c)  $\frac{4}{10} \div \frac{5}{7}$  d)  $\frac{1}{6} \div \frac{1}{7}$ Use common denominators to find each quotient. 4. **c)**  $\frac{2}{3} \div \frac{1}{2}$ **b)**  $\frac{7}{5} \div \frac{4}{10}$ **d)**  $\frac{5}{6} \div \frac{3}{4}$ **a)**  $\frac{5}{12} \div \frac{1}{4}$
- **5.** Write three division questions that have  $\frac{3}{8}$  as their quotient.



Answers to Lesson 5.3 Add and subtract fractions and mixed numbers



7. You will need 2 more quarters.

