Unit 3 : Fractions



2)

Name two equivalent fractions of $\frac{4}{12}$.



We can divide or multiply the numerator and the denominator by the same number to get equivalent fractions.

Adding and Subtracting Like Fractions

We can only add or subtract fractions when their denominators are the same.

۲

1. Add.

(a)	$\frac{2}{5} + \frac{1}{5}$	(b)	$\frac{1}{8} + \frac{4}{8} + \frac{3}{8}$	
	$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$		$\frac{1}{8} + \frac{4}{8} + \frac{3}{8} =$	1

2. Find the sum of $\frac{1}{6}$ and $\frac{5}{6}$.



3. Subtract.

(a)
$$\frac{5}{6} - \frac{4}{6}$$
 (b) $1 - \frac{5}{12} - \frac{2}{12}$
 $\frac{5}{6} - \frac{4}{6} = \frac{1}{6}$ $1 - \frac{5}{12} - \frac{2}{12} = \frac{12}{12} - \frac{5}{12} - \frac{2}{12} = \frac{5}{12}$

4. Find the difference between $\frac{7}{9}$ and $\frac{5}{9}$.



32

۲

Primary Mathematics (Common Core Edition) Extra Practice 4

© 2014 Marshall Cavendish Education Pte Ltd



We get a **mixed number** when we add a whole number and a fraction.

۲

 $5\frac{1}{3}$, $6\frac{3}{7}$, and $8\frac{3}{8}$ are mixed numbers.

1. Write a mixed number.

(a) (b) (c)
$$=2\frac{1}{2}$$

(b) 6 wholes 5 sevenths =
$$6\frac{5}{7}$$

(a)
$$7 + \frac{3}{4}$$

 $7 + \frac{3}{4} = 7\frac{3}{4}$
(b) $9 - \frac{1}{3}$
 $9 - \frac{1}{3} = 8\frac{3}{3} - \frac{1}{3}$
 $= 8\frac{2}{3}$

© 2014 Marshall Cavendish Education Pte Ltd

۲

۲

Improper Fractions

In an **improper fraction**, the numerator is greater than or equal to its denominator.

۲

Improper fractions are equal to or greater than 1.

We can express an improper fraction as a whole number or a mixed number.

1. Circle the improper fractions.



2. Change the improper fraction $\frac{9}{4}$ to a mixed number.



3. Change 4 $\frac{3}{5}$ into an improper fraction.

$$4\frac{3}{5} = 4 + \frac{3}{5}$$
$$= \frac{20}{5} + \frac{3}{5}$$
$$= \frac{23}{5}$$

34

۲

Primary Mathematics (Common Core Edition) Extra Practice 4

Fractions and Division

1. Share 3 pizzas equally among 4 children. Each child receives 3 fourths.

۲



2. Share 5 pizzas equally among 4 children. Each child receives 5 fourths.



© 2014 Marshall Cavendish Education Pte Ltd

۲

3. Find the value of $32 \div 6$.

Method 1:

$32 \div 6 = 5\frac{2}{4}$	5
6	6)32
<u> </u>	30
$-5\frac{1}{3}$	2

۲

Method 2:

$$32 \div 6 = \frac{32}{6}$$
$$= \frac{16}{3}$$
$$= 5\frac{1}{3}$$

4. Express $\frac{11}{3}$ as a mixed number.

Method 1:



$$\frac{11}{3} = \frac{9}{3} + \frac{2}{3}$$
$$= 3 + \frac{2}{3}$$
$$= 3\frac{2}{3}$$

Method 2:

$\frac{11}{1} = 11 \div 3$	3
3	3)11
22	9
$=3\frac{-}{3}$	2

36

۲

Primary Mathematics (Common Core Edition) Extra Practice 4