Theme 6: Accidents and safety.

Sub theme: Accidents and safety at home

Multiplication symbol (X) read as times

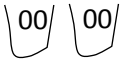
Multiplication table of 2.

0 x 2 = 0	7 x 2 = 14
1 x 2 = 2	8 x 2 = 16
2 x 2 = 4	9 x 2 = 18
3 x 2 = 6	10 x 2 = 20
4 x 2 = 8	11 x 2 = 22
5 x 2 = 10	12 x 2 = 24
6 x 2 12	

Examples

0 x 2 = 0

2 x 2 = 4



$$\begin{array}{r} 4 \\ \times\ 2 \\ \hline \end{array}$$

1 x 2 = 2

5 x 2 = 10

$$\begin{array}{r} 6 \\ \times\ 2 \\ \hline \end{array}$$

Activity

Multiply

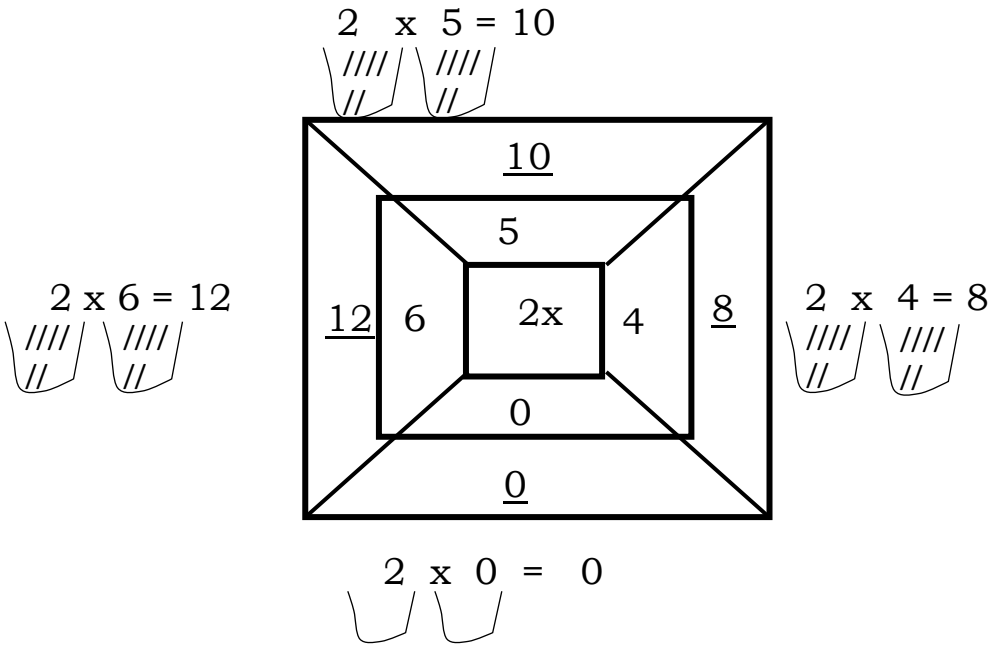
1. 3 x 2 =
2. 7 x 2 =
3. 9 x 0 =
4. 4 x 2

5. $\begin{array}{r} 3 \\ \times\ 2 \\ \hline \end{array}$

6. $\begin{array}{r} 9 \\ \times\ 2 \\ \hline \end{array}$

Multiply in tables and circles

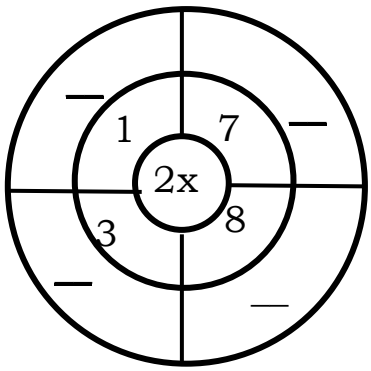
Examples



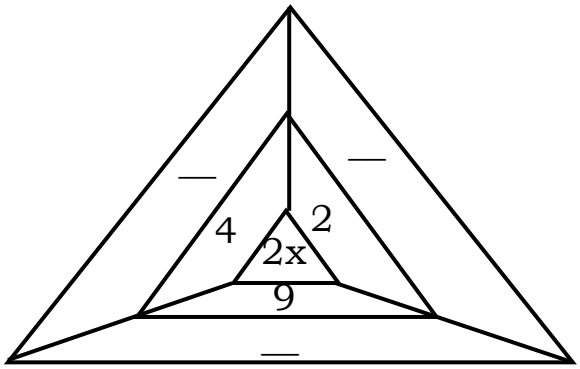
Activity

Multiply

1.



2.

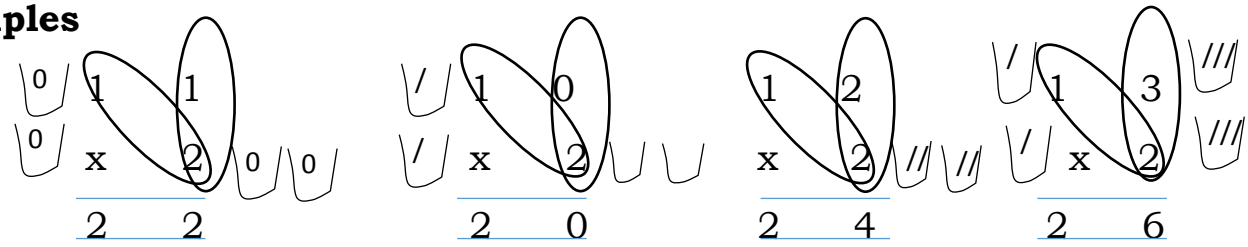


3.

X	**1**	**2**	**3**	**0**	**4**
2					

Multiplication of 2 digit numbers by one.

Examples



Activity

Multiply

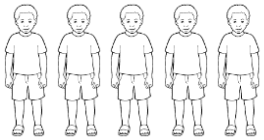
1 4	2 2	2 0
x 2	x 2	x 2
2 3	2 2	3 3
x 2	x 2	x 2

Multiplication of 2 involving words.

New words

- Times
- product

Examples

1. One hen has 2 legs.
   How many eyes do 3 hens have?
    = 6 legs 
2. A boy has 2 legs.
   How many legs 5 boys have?
    = 10 legs
3. A cat has 2 ears.
   6 cats has <u>12</u> ears
   

Activity

a) A cow has 2 horns. How many horns do 2 cows have?
b) A girl has 2 hands.
   7 girls have _____ hands.
c) A dog has 2 ears. How many ears do 8 dogs have? _____

Recognizing the subtraction sign.

Subtraction sign (-)

Examples of subtraction

a) 5 – 1 = 3
00000

b) 6 - 4 = 2
000000

c) 8 – 5 = 3
0000
0000

d) 7 - 0 = 7
00000000

7000000000
- 2
5

9 000000000
- 3
6

4
- 4
0

Activity

Subtract the numbers.

1. 3 - 1 =
2. 6 - 2 =
3. 4 - 0 =
4. 8 - 2 =
5. 3
   - 0
6. 9
   - 5

More subtraction with words.

Examples

1. Subtract 2 from 5
   5 - 2 = 3
   00000
2. What is 6 and 3 less?
   6 – 3 = 3
   000000
3. 8 flowers take away 2 flowers = 6 flowers.
4. 4balls 0000
   - 2balles
   4balls
5. 9lories 000000000
   - 3lories
   6lories

Activity

1. Subtract 3 from 8.
2. What is 7 and 5 less?
3. 8books
   - 3books
   _____
4. 6 tables
   - 2tables
   _____
5. 10 houses takeaway 5 houses equals _____

Subtraction of numbers involving words.

New words

- Takeaway
- Subtract
- Broken
- Died
- Got lost
- Ate
- Remained
- less

Examples

1. Ali had 4 eggs
   He ate 2 eggs
   How many eggs remained?
   4eggs
   - 2eggs
   2eggs
2. Amina had 6 glasses. 5glasses got broken. How many glasses remained?
   6glasses – 5glasses = 1 glass.
   0 0 0 0 0 0
3. 8 takeaway 2 equals 6
   0 0 0 0 0 0 0 0

Activity

Subtract correctly

1. A dog had 7 puppies, 4 puppies died. How many puppies remained?
2. Mary had 9 pencils, 3 pencils got lost. How many pencils does Mary have.
3. 7 takeaway 2 equals _____

END OF THEME 6: EVALUATION TEST

1. Mu;tiply
   5 x 2 = _____ b. 7
   x 2
   _____

X	2	0	4	6	8
2	__	__	8	__	__

3. 3 0 4 2
   x 2 x 2
   _____ _____

4. Read and work out.
   a) A boy has 1 head. How many heads do 9 boys have?_____
   b) One basket has 2 eggs. 8 baskets have _____eggs
5. Find the product of 2 and 3.
6. Five times two equals _____
7. Subtract:
   a) 5 - 3 = b) 7 c) 8chairs
   - 2 - 2chairs
   _____ _____
8. Musa had 8 eggs. 2 eggs got broken. How many eggs remained?
9. 5 stones takeaway 2 stones equals _____
10. Subtract 6 from 10.
11. What is 4 and 2 less?

THEME:7 Living together

Counting numbers 70 – 100.

70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100

Activity

1. Fill in the missing numbers.

a) 70, ____, ____, 73, ____, ____
b) 94, ____, ____, 97, _____
c) 81, ____, 83, ____, ____
d) 96, ____, 98, ____, _____

Writing the number before and after.

Examples

1. Write the number before.
   a) 70, 71
   b) 74, 75
   c) 93, 94
   d) 86, 87
2. Write the number after.
   a) 95, 96
   b) 89, 90
   c) 75, 76
   d) 79, 80

Activity

1. Write the number after.
   a) 73, _____
   b) 92, _____
   c) 88, _____
   d) 70, _____
2. Write the number before.
   a) ____, 82
   b) ____, 77
   c) _____, 95
   d) ____, 100

Writing the number between.

Examples

a) 83, 84, 85
b) 74, 75, 76
c) 98, 99, 100
d) 85, 86, 87

Activity

1. Find the number between.
   a) 73, ____, 75 c) 93, ____, 95 d), 77, ____, 79
   b) 86, ____, 88

Comparing numbers

Examples

1. Ring the smaller number.
   a) (75) or 80 c) 96 or (76) d) (70) and 100
   b) 92 or (82)

2. Underline the bigger number.
   a) 81 or 91 c) 99 or 100 d) 88 and 78
   b) 75 and 79

Activity

1. Tick the smaller number.
   a) 70 and 80 c) 88 or 98 d) 95 or 85
   b) 92 and 74
2. Circle the bigger number.
   a) 95 or 85 c) 87 and 78 d) 100 or 89
   b) 71 and 91

Arranging numbers from the smallest to the biggest (ascending order)

Examples

a) 82, 85, 83, 84, 81 = <u>81, 82, 83, 84, 85</u>
b) 78, 79, 77, 76, 80 = <u>76, 77, 78, 79, 80</u>
c) 99, 76, 83, 98, 72 = <u>72, 76, 83, 98, 99</u>

Activity

Arrange numbers starting with the smallest to the biggest (Ascending order)

a) 87, 84, 85, 88, 86 = _____
b) 76, 75, 72, 71, 77 = _____
c) 95, 98, 96, 94, 92 = _____

Arranging numbers from the biggest (descending order)

Examples

a) 74, 82, 95, 77 = <u>95, 82, 77, 74</u>

b) 80, 60, 100, 70, 50 = <u>100, 80, 70, 60, 50</u>

Activity

Arrange numbers in descending order.

1. 10, 30, 20, 50, 40 = _____
2. 86, 82, 88, 85 = _____

Number names 70 – 100.

70 – seventy

71- seventy – one

72 – seventy – two

73 – seventy – three

74 – seventy – four

75 – seventy – five

76 – seventy – six

77 – seventy – seven

78 – seventy – eight

79 – seventy – nine

80 – eighty

81 – eighty – one

82 – eighty – two

83 – eighty – three

84 – eighty – four

89 – eighty – nine

90 – ninety

91 – ninety – one

92 – ninety – two

93 – ninety – three

94 – ninety – four

95 – ninety – five

96 – ninety – six

97 – ninety – seven

98 – ninety – eight

99 – ninety nine

100 – one hundred

Activity

1. Write the number word.
   70 _____ 88 _____ 76 _____
   77 _____ 99 _____ 100 _____
2. Match number names to numbers.

Ninety – eight	72
Eight – one	74
Seven – four	98
Seventy – two	81

3. Tick the correct number name for the given number symbol.
   a) One hundred, one 100 b) seventeen, seventy-one 71
   c) ninety-two , nineteen 92

Number names 70 – 100.

70 – seventy

71- seventy – one

72 – seventy – two

73 – seventy – three

74 – seventy – four

75 – seventy – five

76 – seventy – six

77 – seventy – seven

78 – seventy – eight

79 – seventy – nine

80 – eighty

81 – eighty – one

82 – eighty – two

83 – eighty – three

84 – eighty – four

89 – eighty – nine

90 – ninety

91 – ninety – one

92 – ninety – two

93 – ninety – three

94 – ninety – four

95 – ninety – five

96 – ninety – six

97 – ninety – seven

98 – ninety – eight

99 – ninety nine

100 – one hundred

Activity

1. Write in figures.
   a) One hundred _____ d) seventy-two
   b) Ninety-nine _____ e) seventy-nine
   c) Eighty-six_____ f) ninety
2. Ring the correct number symbol for the given number word.

81	eighty-one	eighteen
91	nineteen	ninety-one
77	seventy	seventy-seven

3. Match numbers to words.

10	fifty
20	ninety
30	forty
40	ten
90	thirty
50	twenty

Fractions

New words

-part, whole

Fraction is a part of a whole.

Parts of a fraction

$\frac{1}{2}$ 1 ——— numerator
2 ——— denominator

Examples of fractions

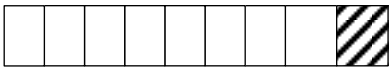
1 a whole

$\frac{1}{7}$ a seventh

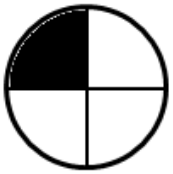
$\frac{1}{2}$ A half

$\frac{1}{8}$ an eight

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



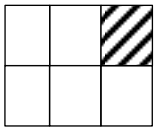
$\frac{1}{9}$ a ninth



$\frac{1}{4}$ a quarter

$\frac{1}{10}$ a tenth

$\frac{1}{5}$ a fifth



$\frac{1}{6}$ a sixth

1. Match correctly.

1	a quarter
$\frac{1}{2}$	a fifth
$\frac{1}{3}$	a whole
$\frac{1}{4}$	a half
$\frac{1}{5}$	a third

2. Name these fractions.

_____

_____

_____

3. Fill in the missing letters.

a wh__le a th__rd a q___arter

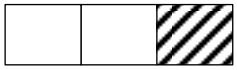
4. Write in words.

$\frac{1}{2}$ _____ $\frac{1}{7}$ _____ $\frac{1}{3}$ _____

5. Match

a quarter

a third



a half

a whole

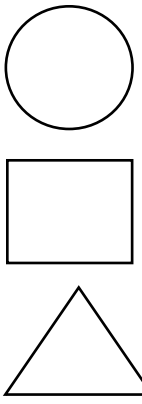
<u>Folding and cutting fractions.</u>

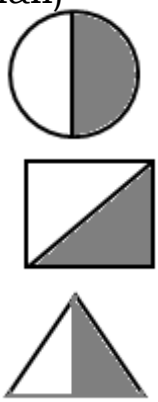
(i) Practical activity
(ii) Display fruits like oranges, tomatoes, bananas and card boards.
(iii) Cut some of the objects into two equal parts and guide learners to identify a half.
(iv) Cut more objects into four equal parts and guide learners to identify a quarter.
(v) Guide children to notice that two halves make a whole.
(vi) Ask pupils to make or to cut halves and quarters.

Drawing and shading fractions.

Examples

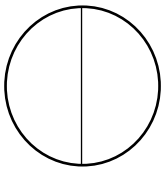
Drawing and shading (ahalf)

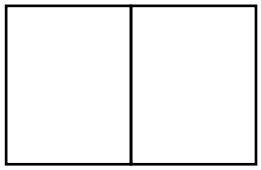




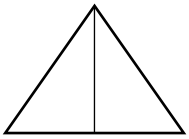
Activity

1. Shade $\frac{1}{2}$

 $= \frac{1}{2}$

 $= \frac{1}{2}$

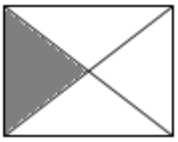
 $= \frac{1}{2}$

 $= \frac{1}{2}$

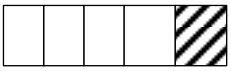
Naming shaded fractions.

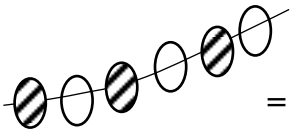
Examples

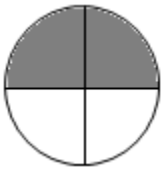
 $= 1$

 $= \frac{1}{4}$

 $= \frac{1}{2}$

 $= \frac{1}{5}$

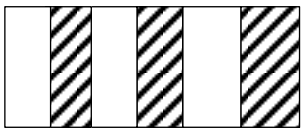
 $= \frac{3}{6}$

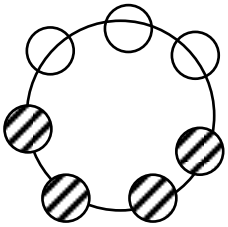
 $= \frac{2}{4}$

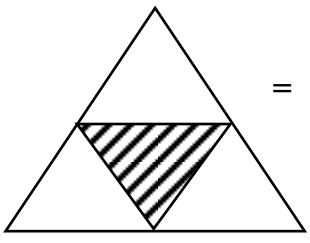
Activity

1. Name the shaded fractions.

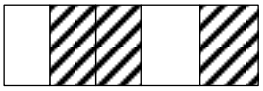
 =

 =

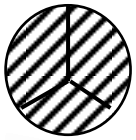
 =

 =

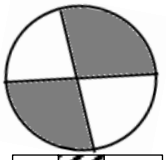
2. Match correctly.



$\frac{2}{4}$



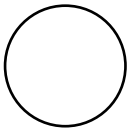
$\frac{1}{3}$



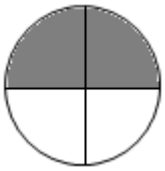
$\frac{3}{5}$

Naming unshaded fractions.

Examples.

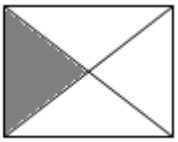


= 1



$\frac{2}{4}$

$= \frac{1}{2}$

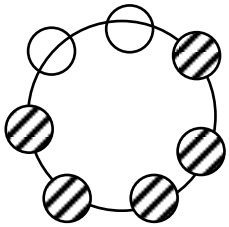


$\frac{3}{4}$

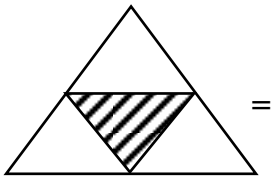
Activity

1. Write the unshaded fractions.

= _____



= _____

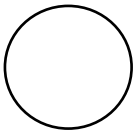


= _____

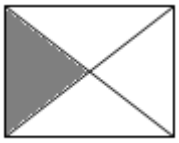
= _____

Drawing and shading (aquarter)

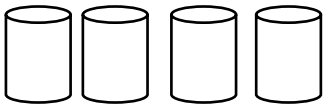
Examples

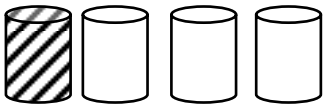


$= \frac{1}{4}$



$= \frac{1}{4}$

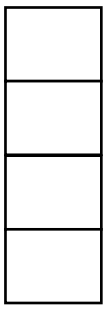




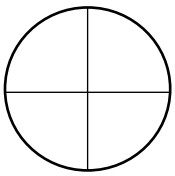
$= \frac{1}{4}$

Activity

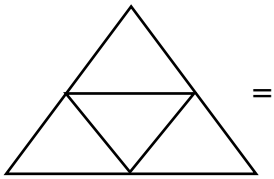
1. Shade $\frac{1}{4}$ (a quarter)



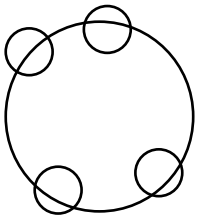
$= \frac{1}{4}$



$= \frac{1}{4}$



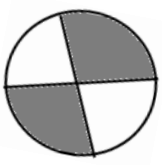
$= \frac{1}{4}$

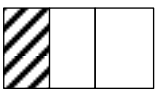


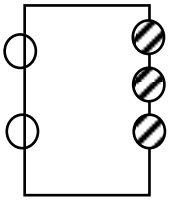
$= \frac{1}{4}$

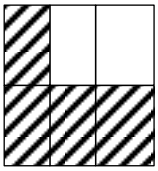
More about drawing and shading fractions.

Examples

$\frac{2}{4} =$ 

$\frac{1}{3} =$ 

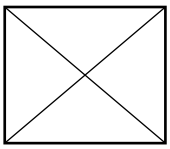
$\frac{3}{5} =$ 

$\frac{4}{6} =$ 

Activity

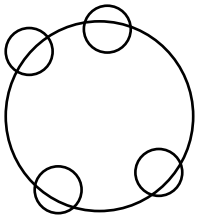
Shade the fractions.

$\frac{1}{4}$ =

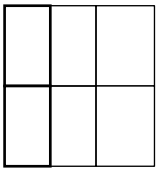


$\frac{2}{3}$ =

$\frac{4}{8}$



$\frac{3}{6}$



1 =

Addition of fractions

Examples

a) $\frac{1}{4} + \frac{2}{\textcircled{4}} = \frac{1+2}{4} = \frac{3}{4}$

b) $\frac{2}{7} + \frac{3}{\textcircled{7}} = \frac{2+3}{7} = \frac{5}{7}$

c) $\frac{6}{12} + \frac{2}{\textcircled{12}} = \frac{6+2}{12} = \frac{8}{12}$

d) $\frac{3}{\textcircled{8}} + \frac{3}{8} = \frac{3+3}{8} = \frac{6}{8}$

Activity

1. Add correctly.

a) $\frac{1}{5} + \frac{2}{5} =$ _____ = _____

d) $\frac{3}{10} + \frac{4}{10} =$ _____ = ____

b) $\frac{5}{15} + \frac{3}{15} =$ ____ = _____

c) $\frac{2}{8} + \frac{2}{8} =$ _____ = ____

Addition of fractions involving words.

Key words: add, plus, sum, total, altogether

Examples

a) $\frac{3}{6}$ and $\frac{1}{6}$

$\frac{3}{6} + \frac{1}{6} = \frac{3+1}{6} = \frac{4}{6}$

b) $\frac{4}{10}$ plus $\frac{2}{10}$

$$\frac{4}{10} + \frac{2}{10} = \frac{4+2}{10} = \frac{6}{10}$$

c) Loy had $\frac{2}{8}$ of a cake. Tom added her $\frac{3}{8}$ of a cake. Which fraction did she have altogether?

$$\frac{2}{8} + \frac{3}{8} = \frac{2+3}{8} = \frac{5}{8}$$

Activity

Read and work out

1. Find the total of $\frac{1}{12}$ and $\frac{7}{12}$
2. What is the sum of $\frac{4}{20}$ and $\frac{5}{20}$?
3. Tina has $\frac{2}{6}$ of a bread. Liz has $\frac{2}{6}$ of a bread. Which fraction do they have altogether?

Subtraction of fractions

Examples

a) $\frac{2}{5} - \frac{1}{5} = \frac{2-1}{5} = \frac{1}{5}$

b) $\frac{4}{8} - \frac{2}{8} = \frac{4-2}{8} = \frac{2}{8}$

b) $\frac{7}{10} - \frac{3}{10} = \frac{7-3}{10} = \frac{4}{10}$

d) $\frac{6}{9} - \frac{5}{9} = \frac{6-5}{9} = \frac{1}{9}$

Activity

Subtract these fractions.

1. $\frac{3}{6} - \frac{1}{6} =$
2. $\frac{4}{5} - \frac{1}{5} =$
3. $\frac{8}{10} - \frac{6}{10} =$
4. $\frac{2}{5} - \frac{1}{5} =$
5. $\frac{5}{8} - \frac{2}{8} =$

Subtraction of fractions involving words

Examples

a) $\frac{4}{9}$ minus $\frac{3}{9}$ equals $\frac{4}{9} - \frac{3}{9} = \frac{4-3}{9} = \frac{1}{9}$

b) $\frac{10}{10}$ takeaway $\frac{5}{10}$ equals $\frac{10}{10} \; \frac{5}{10} = \frac{10-5}{10} = \frac{5}{10}$

c) Joy has of a sugarcane. She ate of the sugarcane. Which fraction did she remain with?

$\frac{3}{6} - \frac{2}{6} = \frac{3-2}{6} \; \frac{1}{6}$

Activity

1. $\frac{6}{9}$ minus $\frac{4}{9}$ equals.
2. $\frac{8}{10}$ takeaway $\frac{7}{10}$ equals

3. Sarah had $\frac{7}{7}$ of a cloth. She gave Eve $\frac{3}{7}$ of a cloth. What fraction was left?

4. John had $\frac{3}{5}$ of a cake. She ate $\frac{2}{5}$ of a cake. Which fraction did he remain with?