Gargieston Primary School Coral Homework
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Chapter 10\%

Exercise 1

Ch 10 - Fractions


1. a What fraction of this shape is shaded?
b What fraction of the shape is NOT shaded?

2. What fraction of each shape is shaded ?
a

b

c

3. What fraction of each shape in question 2 is NOT shaded?
4. Copy or trace each shape and shade or colour the fraction shown :-
a

shade $\frac{7}{12}$
b

shade $\frac{5}{6}$
C

shade $\frac{2}{5}$
5. In a car park there were 5 cars, 4 vans and 2 buses.
a How many cars, vans and buses were there altogether ?
b What fraction of them were cars?
c What fraction were buses?
6. Cheryl keeps 5 DVD's, 3 CD's and 4 videos in a box.
a What fraction of the box are DVD's?
b What fraction of the box are NOT videos?

7. Last July it rained for 5 days.

How many days are there in July and what fraction of the month was it raining?

## Exercise 2

1. Look at the two pictures opposite.
a What fraction of each shape is shaded?

b What can you tell about these 2 fractions from the pictures?
2. Simplify each fraction by dividing top and bottom by 2 :-
a $\frac{2}{4}$
b $\frac{6}{10}$
c $\frac{8}{14}$
d $\frac{20}{26}$
e $\frac{18}{22}$
f $\frac{12}{14}$
3. Simplify each fraction by dividing top and bottom by 5 :-
a $\frac{5}{10}$
b $\frac{5}{30}$
c $\frac{10}{25}$
d $\frac{15}{20}$
e $\frac{25}{35}$
f $\frac{30}{40}$
4. Simplify each fraction as far as possible :-
a $\frac{15}{25}$
b $\frac{4}{10}$
c $\frac{9}{15}$
d $\frac{30}{50}$
e $\frac{20}{30}$
f $\frac{12}{15}$
g $\frac{18}{21}$
h $\frac{16}{20}$
i $\frac{14}{21}$
j $\frac{3}{15}$
k $\frac{8}{12}$
$\frac{6}{18}$
5. Ravi had 50 p. He spent 30 p on a drink.
a What fraction of his money did he spend ?

b Simplify your answer.
6. A case of twelve bottles is used at a party. The case had:-

- 6 bottles of cola,
- 3 bottles of lemonade,
- 1 bottle of orange
- the rest was water.
a What fraction of the case was cola?
b What fraction of the case was lemonade?


## Exercise 3

1. Copy and complete :-
$\frac{1}{3}$ of 15 p means $\rightarrow$ " 15 p divided by $3=\ldots . . . \mathrm{p}$ ".
2. Find:-
a $\frac{1}{3}$ of 24 kg
b $\frac{1}{2}$ of $£ 18$
c $\frac{1}{4}$ of 36 g
d $\frac{1}{5}$ of 45 litres
e $\frac{1}{6}$ of 24 p
f $\frac{1}{7}$ of 56 cm
3. At a party, $\frac{1}{4}$ of the 28 guests were girls.
a How many girls were at the party?
b How many boys were at the party?

4. a Amy is $\frac{1}{6}$ of her dad's age.

If her dad is 42 years old, how old is Amy?
b Zak tired $\frac{1}{5}$ of the way into a 20 kilometre run. How many kilometres had Zak run before tiring ?
c An eighth of the sweets in a bag of 40 sweets are red.
 How many of the sweets in the bag are NOT red?
5. Ben spent $\frac{1}{4}$ of his pocket money on sweets.

If Ben received $£ 2$ pocket money, how much did he spend on sweets?
6. There were 24 birds in my garden.

- $\frac{1}{4}$ of them were starlings
- $\frac{1}{3}$ of them were blackbirds
- $\frac{1}{6}$ of them were thrushes.
- The rest were sparrows.

How many of each type of bird were there?

## Revision Exercise

1. Write down the fraction of each shape that is shaded :-
a

b

c

2. Write down the fraction of each shape in question 2 that is NOT shaded.
3. A diagram is made using 4 squares, 2 rectangles and a circle.

What fraction of the shapes are :-
a squares
b rectangles
c circles?
4. Write down a fraction that is equivalent to $\frac{3}{4}$.
5. Simplify :-
a $\frac{2}{4}$
b $\frac{3}{12}$
c $\frac{5}{30}$
d $\frac{12}{16}$
e $\frac{15}{25}$
f $\quad 30$
6. Find :-
a $\frac{1}{3}$ of 27 kg
b $\frac{1}{5}$ of $45 p$
c $\frac{1}{6}$ of 36 ml
d $\frac{1}{7}$ of $£ 35$
e $\frac{1}{8}$ of 56 euros
f $\frac{1}{10}$ of 320 mm .
7. Kate cycled for $\frac{1}{3}$ of an hour.

How many minutes did Kate cycle for?
8. I am 28 years old.


I lived the first $\frac{1}{4}$ of my life in Edinburgh.
For how many years did I live in Edinburgh ?

