## 7/

Rose Maths

## Identify and represent sets

	e the two sets the same or different? Tick your answers.
	A = {1, 2, 3, 4} Same different  B = {4, 3, 2, 1}
	The elements of A and B are identical.
b)	A = {-1, -2, -3, -4} B = {1, 2, 3, 4}
	B are positive.
c)	A = {even numbers}  B = {2, 4, 6, 8}  B doesn't contain all even numbers, only
	4
d)	A = {names of pets}  B = {types of pets}  The name of a pet is generally diverent
	than the type of pet.
e)	A = {letters in "word scare"} B = {letters in "word cares"} \[ \sqrt{\sq}}}}}}}}}}}}}} \end{\sqit{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}}} \end{\sqit{\sqrt{\sq}}}
f)	A = $\{\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \frac{5}{5}\}$ B = $\{0.2, 0.4, 0.6, 0.8, 1\}$
	5 is equivalent to 0.2 and so on

List the elements of the sets.
Use correct set notation.
a) Set A: months of the year
A= { January, February

	A= { January, February, Mard	ı, April,	May, June	, July,
	August, September, October,	Novemb	er, becember	-3
b)	Set B: quadrilaterals with at least two	right ang	les	

B= & square.	rectangle.	right-trapezium 3
0	,	0

C)	Set C: factors of 2	21
	C= \$1, 3, 9, 8	273

$$\xi = \{\text{letters in the alphabet}\}$$

a) A = {letters in "symmetry"}List the elements of set A.

- b) B = {letters in "proportion"}List the elements of set B.
- c) Which letters are in both set A and set B?





## ξ = {integers between 1 and 20 inclusive}

List the elements of the sets.

a) A = {odd numbers}

**b)** B = {even numbers}

c) C = {multiples of 8}

8, 16

d)  $D = \{factors of 40\}$ 

- 5 Describe the sets in words.
  - **a)** {4, 8, 12, 16, 20}

Multiples of 4 between 1 and 20 indusure.

**b)** {-4, -8, -12, -16, -20}

Multiples of -4 between -1 and -20 indusine.

**c)** {a, t, h, m, s}

Letters in the word maths.

**d)** {1, 3, 7, 21}

Factors of 21

**e)** {35, 70, 105, 140, 175}

Multiples of 35 between 1 and 175 inclusive.

Compare answers with a partner.

Do any of the sets have more than one solution?



 $\xi$  = {integers between 1 and 50 inclusive}

A = {factors of 100} C = {even numbers}

B = {multiples of 5} D = {odd numbers}

a) List the elements in the sets.

A 1,2,4,5,10,20, 25,50

B 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

C 2, 4, 6, 8, 10,12, 14, 16, 18, 20, 22, 24, 26, 28,

30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50

D 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29,

31, 33, 35, 37, 39, 61, 43, 45, 49

b) List the elements that are in both set A and set B.

5, 10, 20, 25, 50

c) Are any elements in both set C and set D? Explain your answer.

No. A number can't be both odd and even.

Compare answers with a partner.

