

Identify and represent sets

Are the two sets the same or different? Tick your answers.
Give reasons for your answers.

a)	A =	{1.	2.	3.	4}
u,	\sim –	ι',	~,	J,	٦,

$$B = \{4, 3, 2, 1\}$$

$\overline{}$	

b)
$$A = \{-1, -2, -3, -4\}$$

$$B = \{1, 2, 3, 4\}$$

_	
- 1	
- 1	
_	

$$B = \{2, 4, 6, 8\}$$

_	_	
7	Г	
1	- 1	
1	- 1	
1	- 1	
_	_	

d)
$$A = \{names of pets\}$$

\Box	



_	
1	

f)
$$A = \{\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \frac{5}{5}\}$$

$$B = \{0.2, 0.4, 0.6, 0.8, 1\}$$

	l
	l

List	st the elements of the sets.		
Use	se correct set notation.		
a)	Set A: months of the year		
b)	Set B: quadrilaterals with at least two right angles		
c)	Set C: factors of 27		
d)	Set D: square numbers less than 100		
e)	Set E: letters in "mathematics"		
	$\xi = \{\text{letters in the alphabet}\}$		
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}
- d) $D = \{factors of 40\}$

- 5 Describe the sets in words.
 - α) {4, 8, 12, 16, 20}
 - **b)** {-4, -8, -12, -16, -20}
 - **c)** {a, t, h, m, s}
 - **d)** {1, 3, 7, 21}
 - _____

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

Compare answers with a partner.

Do any of the sets have more than one solution?



6

 ξ = {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.

****_____

C _____

D _____

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

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

Compare answers with a partner.



