

Identify and represent sets

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

a)	Α	=	{1,	2,	3,	4
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$$B = \{4, 3, 2, 1\}$$

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



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

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-		l .
- 1		
-		l .
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			_	_	
d)	Α	= .	{names	of	pets

e)	$A = \{ lette$	ers in v	word	"scare"



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

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

- 1	
- 1	
- 1	

	_	
	- 1	
	- 1	
	-	

)	Lis	st the elements of the sets.				
	Use	e 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?



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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?



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 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.

A______

B _____

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.



