

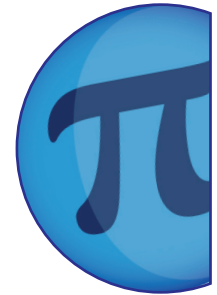


Venn Diagrams: Global Habitats

NAME:

CLASS:

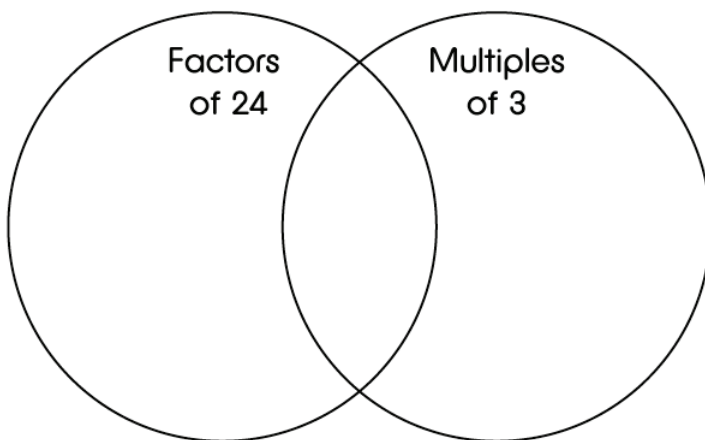
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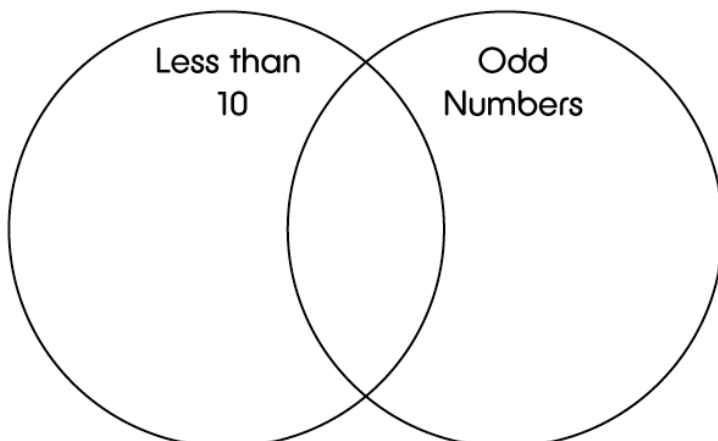
Basic

1) Form four sets from the following and describe each set in words:
Monday, 4pm, Thursday, 20p, 3am, noon, £1.35, April, 50p, August.

2) Put the following numbers into the Venn diagram below: 1, 2, 3, 4, 6, 8, 9, 12, 15, 18, 21, 24.



3) Put the following numbers into the Venn diagram below: -9, -7, -5, 2, 3, 5, 9, 17, 77, 111.



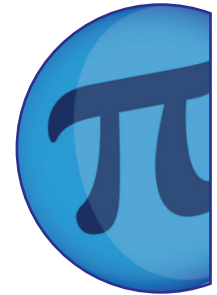


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Core

1) Give a possible universal set for each of the following:

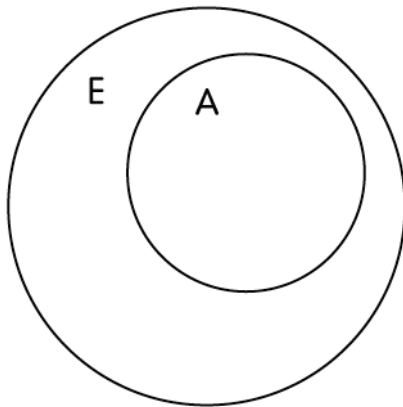
a) {a, b, c, d}

b) {1,3,5,7,9}

c) {Spain, France, Holland}

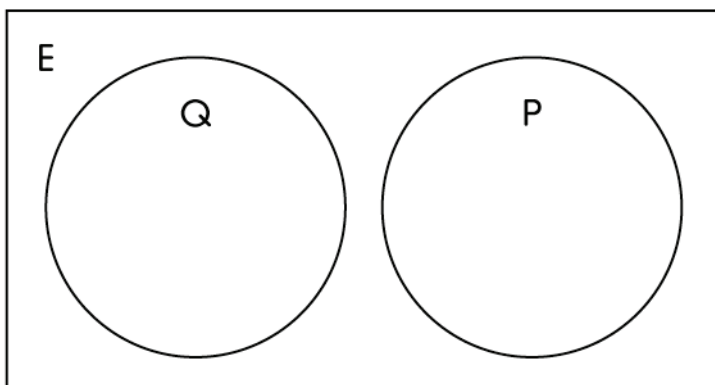
2) Draw a Venn diagram to show each of the following:

$E = \{\text{vowels in the English alphabet}\}$; $A = \{\text{the first three vowels}\}$



3) Illustrate each of the following on a Venn diagram:

$E = \{1,2,3,4,5,6\}$; $P = \{1,2,3\}$; $Q = \{4,5\}$



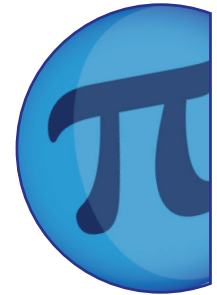


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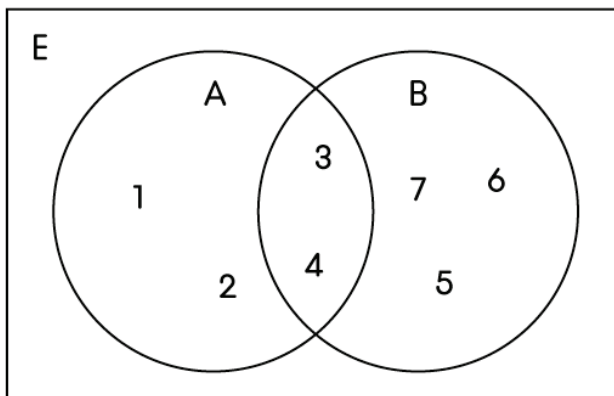
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Core

4) From the Venn diagram below, list the members of the following sets:

- a) Set A
- b) Set B
- c) The set of elements that belong to both A and B
- d) The set of elements that belong to either A or B (or both A and B)
- e) The set of elements that do not belong to A or B



5) $D = \{\text{prime numbers less than 12}\}$; $F = \{\text{even numbers less than 12}\}$; $W = \text{whole numbers}$.

- a) List $D \cap F$
- b) List $D \cap W$

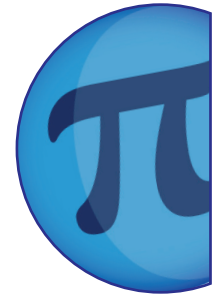


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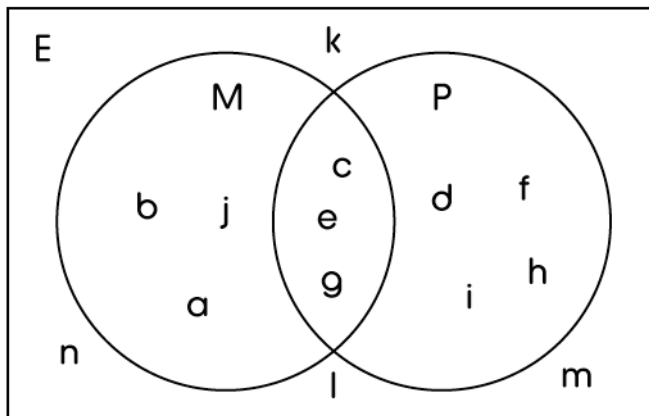
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Advanced

1) In the diagram below, $E = \{\text{students selected from a junior class}\}$; $M = \{\text{students who like maths}\}$; $P = \{\text{students who like physics}\}$. Each letter represents a student.



- a) How many students like maths?
- b) How many students like physics?
- c) How many students like both maths and physics?
- d) How many students like maths but not physics?
- e) How many students like physics but not maths?
- f) How many students like neither maths nor physics?
- g) How many students are in set E altogether?

2) $A = \{\text{first five odd numbers}\}$; $B = \{7,9,11\}$; $C = \{1,2,3,4\}$

a) List $A \cap B$

b) List $A \cap C$



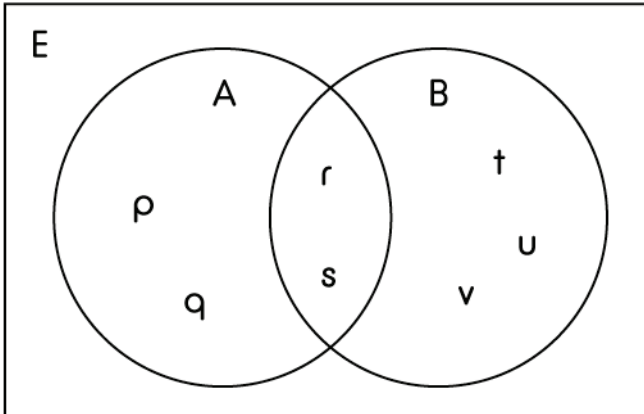
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Advanced

3) In the following Venn diagram:

a) List $A \cap B$

b) List $(A \cap B)'$





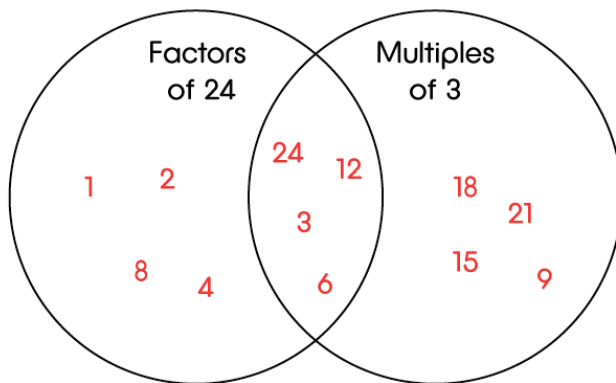
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ANSWERS

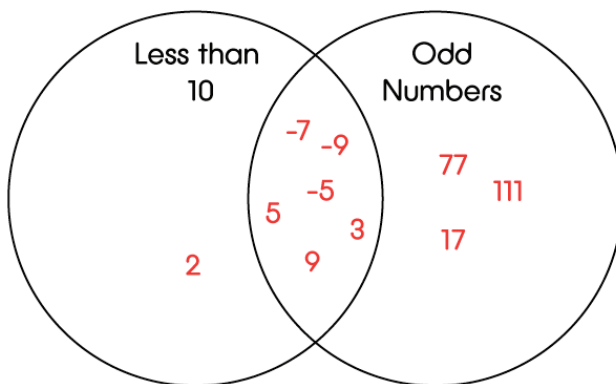
Basic

1) {Monday, Thursday} = {days from the list}, {4pm, 3am, Noon} = {times from the list}, {20p, £1.35, 50p} = {money from the list}, {April, August} = {months from the list}

2)



3)



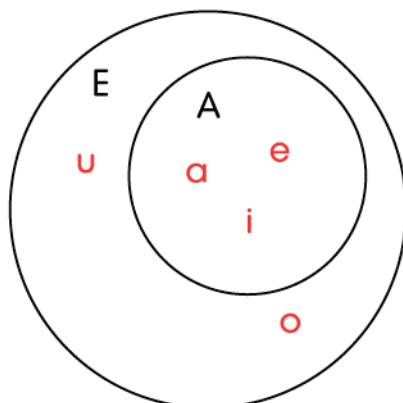
Core

1a) {letters of the alphabet}

b) {odd numbers}

c) {countries of Europe}

2)



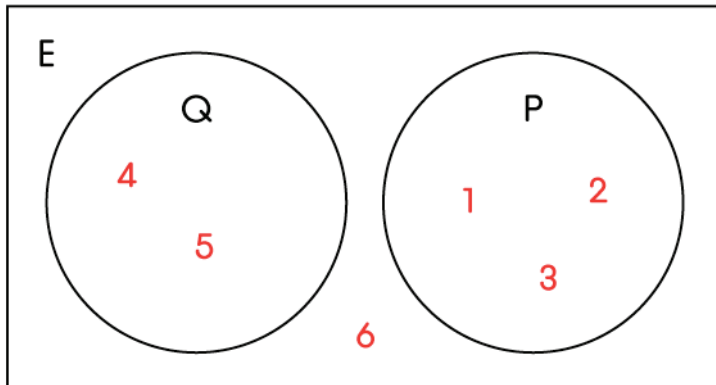


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ANSWERS

Core

3)



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

b) $B = \{3,4,5,6,7\}$

c) $\{3,4\}$

d) $\{1,2,3,4,5,6,7\}$

e) $\{ \}$

5) a) $\{2\}$

b) $\{2,3,5,7,11\}$

Advanced

1) a) 6

b) 7

c) 3

d) 3

e) 4

f) 4

g) 14

2) a) $\{7,9\}$

b) $\{1,3\}$

3) a) $\{r, s\}$

b) $\{p, q, t, u, v\}$