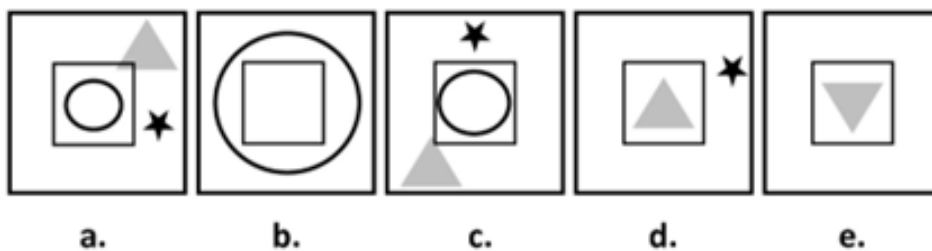
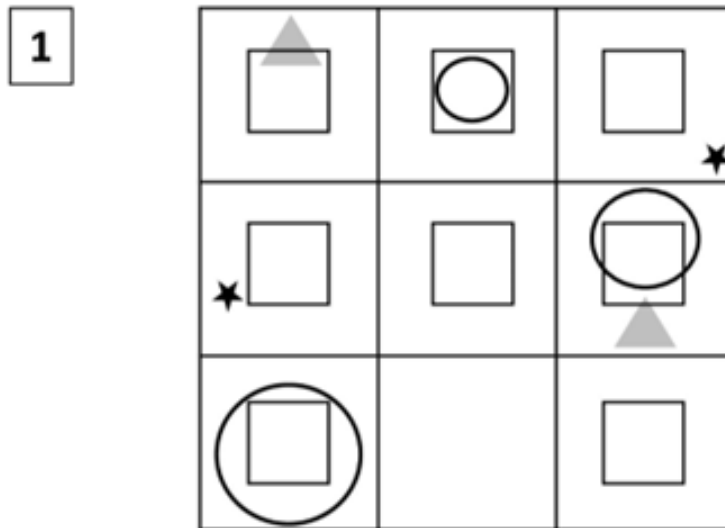


Fill In The Blanks

These exercises help practise non-verbal reasoning skills by challenging the student to carefully look at the properties of each box in terms of shape types, numbers, sizes, shading, and locations.

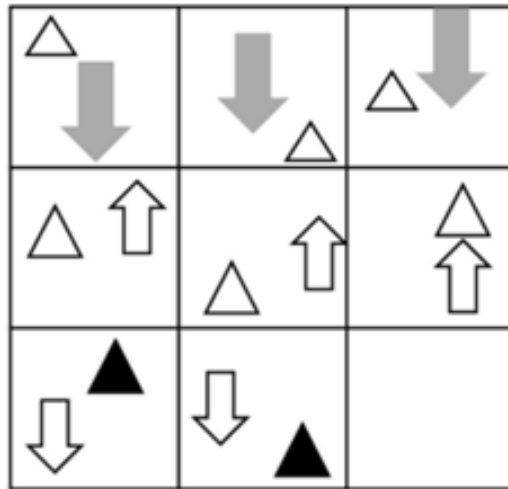
Complete the 3x3 grids by choosing one of the five choices that best fits the given pattern.



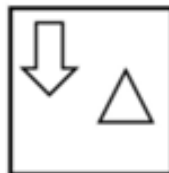
TIPS for looking at these types of puzzles:

- 1) Look at the different **types** of shapes in each of the rows and columns. Look for any patterns
- 2) Look at the **number** of shapes and the **number** of the sides
- 3) Look at the **position** and **direction** of the shapes in the boxes.
- 4) Look at the **shading** or **colour** of the shapes
- 5) Observe the **relationship** of the shapes to each other – is there a pattern?
- 6) Watch out for shapes that do not fit a pattern – they can be there just to throw you off!

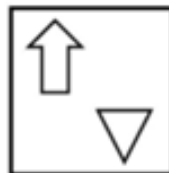
2



a.



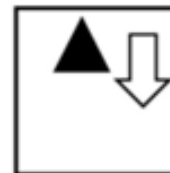
b.



c.

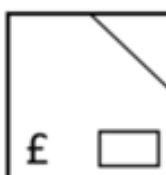
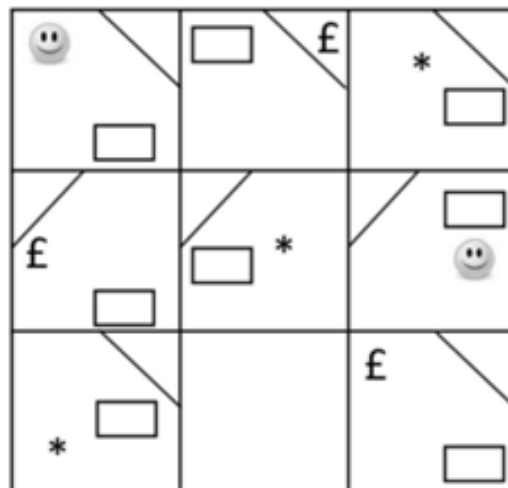


d.

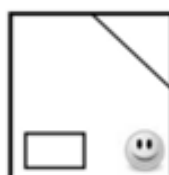


e.

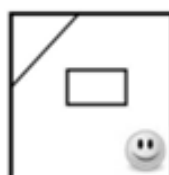
3



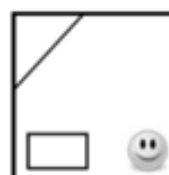
a.



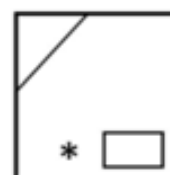
b.



c.

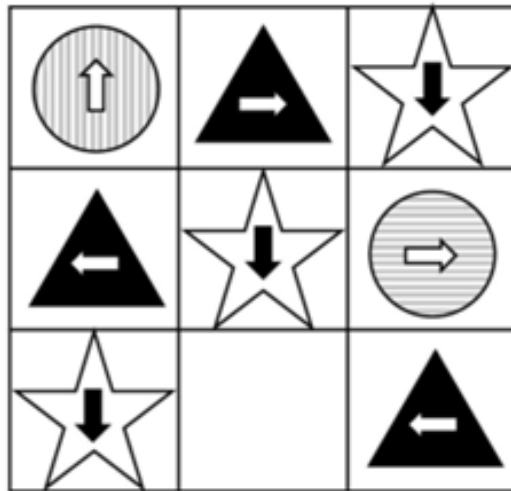


d.

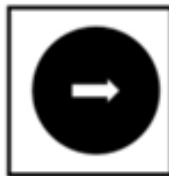


e.

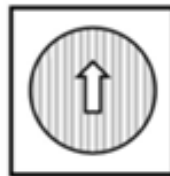
4



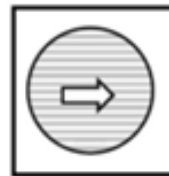
a.



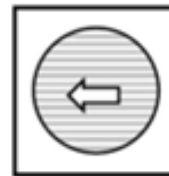
b.



c.

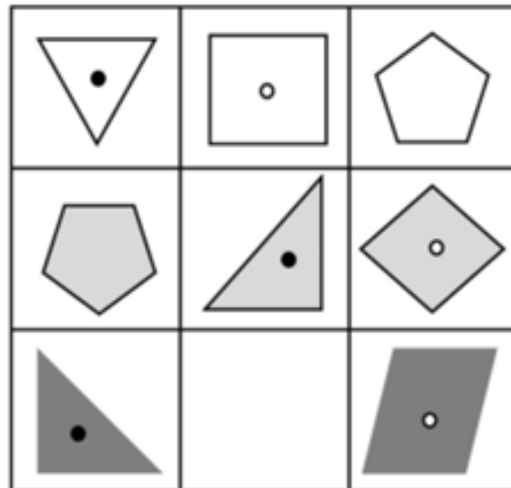


d.



e.

5



a.



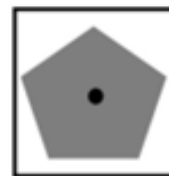
b.



c.

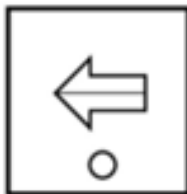
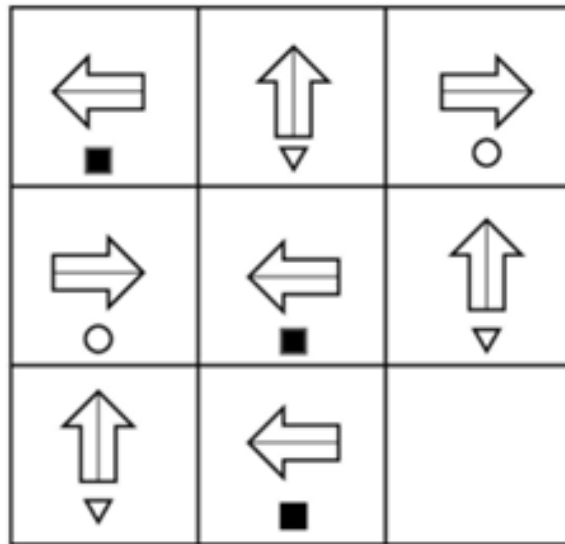


d.

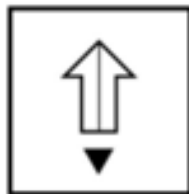


e.

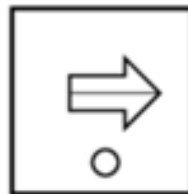
6



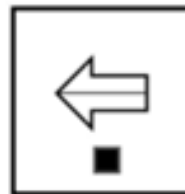
a.



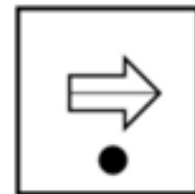
b.



c.

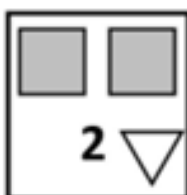
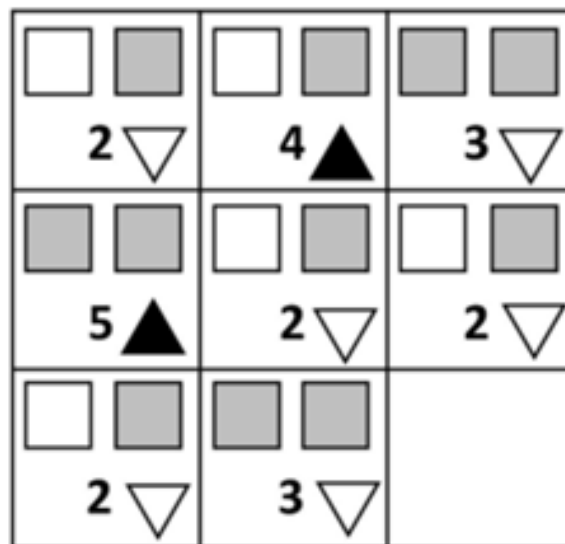


d.

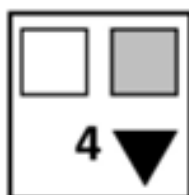


e.

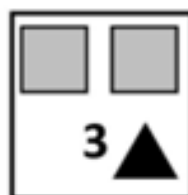
7



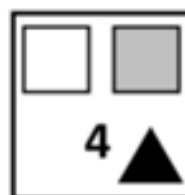
a.



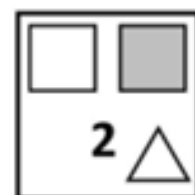
b.



c.



d.



e.

Number-Letter Equations

These exercises will focus on your ability to associate common number and letter combinations. The first answer has been given as an example.

1) 52 W I A Y

52 Weeks in a Year

2) 365 D I A Y

3) 26 L O T A

4) 100 Y I A C

5) 60 S I A M

6) 90 D I A R A

7) 24 H I A D

8) 60 M I A H

9) 14 D I A F

10) 1000 Y I A M

11) 7 C O T R

12) 29 D I F I A L Y

Which One Doesn't Belong?

These exercises require logical reasoning to determine common characteristics of each picture, shape, or set of numbers. Be prepared to explain your reasoning for each.

1 Choose the one below that does not belong to the group. Why?



a



b



c



d



e

2 Choose the one below that does not belong to the group. Why?



a



b



c



d

3 Choose the one below that does not belong to the group. Why?



a



b



c



d

4 Choose the answer below that does not belong to the group. Why?

$$8 - 2$$

a

$$6 + 2$$

b

$$4 + 1$$

c

$$20 \div 2$$

d

TIPS for identifying what doesn't belong:

- 1) Usually there is one common factor – don't assume it is something obvious
- 2) Use your non-verbal and mathematical reasoning – what are the *types* of things, what are the *numbers*, what are the *shape* differences, is the *orientation* or *direction* important?

5 Choose the one below that does not belong to the group. Why?



a



b



c



d

6 Choose the one below that does not belong to the group. Why?



a



b



c



d

7 Choose the one below that does not belong to the group. Why?

15

a

17

b

33

c

24

d

42

e

8 Choose the one below that does not belong to the group. Why?



a



b



c



d

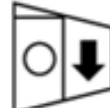
9 Choose the one below that does not belong to the group. Why?



a



b

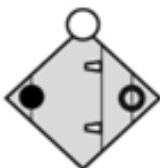


c

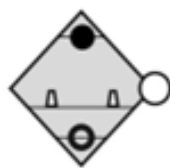


d

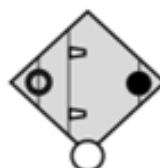
10 Choose the one below that does not belong to the group. Why?



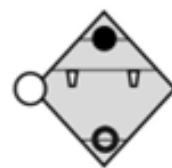
a



b



c



d

11 Choose the one below that does not belong to the group. Why?



a



b



c



d

12 Choose the one below that does not belong to the group. Why?



a



b



c



d



e

13 Choose the one below that does not belong to the group. Why?



a



b

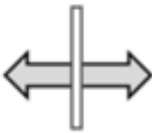


c

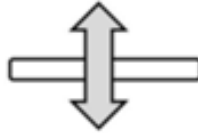


d

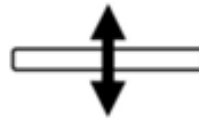
14 Choose the answer below that does not belong to the group. Why?



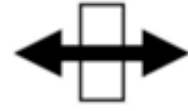
a



b



c



d

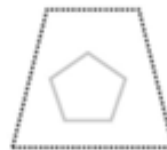
15 Choose the one below that does not belong to the group. Why?



a



b



c



d

16 Choose the one below that does not belong to the group. Why?



a



b



c



d

Crack the Codes

Try to work out what each symbol's value is worth. Each symbol will represent a number from 1 to 12. Four of the answers have been provided to give you a head start.

$$\oplus \times \star = \text{Crescent}$$

$$\text{Rectangle} + \text{Rectangle} - \triangle = \downarrow$$

$$\text{Rectangle} + \oplus = \text{L-Shape}$$

$$\text{L-Shape} \div \oplus = \oplus$$

$$\blacklozenge + \oplus = \text{Rectangle} + \triangle$$

$$\text{Crescent} \div \oplus = \star$$

$$\text{Cylinder} - \star = \oplus + \text{Envelope}$$

$$\triangle \times \blacklozenge = \downarrow$$

$$\downarrow - \oplus = \text{Cylinder} - \text{Envelope}$$

$$\blacksquare - \triangle = \text{Cylinder} - \oplus$$

$$\text{Cylinder} + \text{Envelope} = \text{L-Shape}$$

$$\text{Rectangle} \times \triangle = \text{Crescent}$$

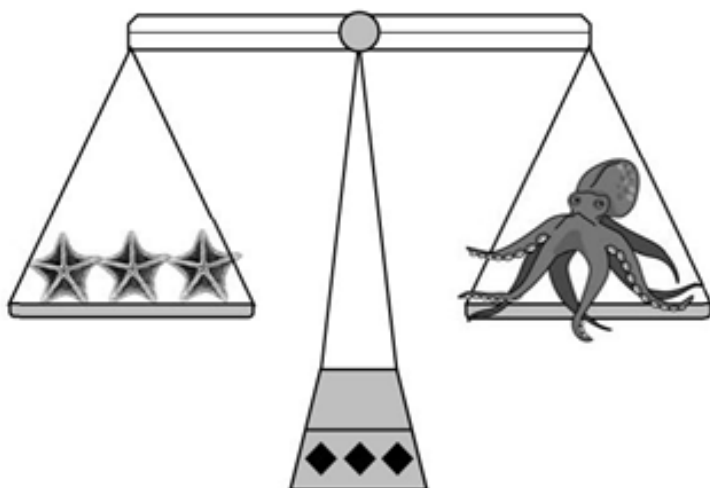
$$\text{Heart} + \text{Envelope} = \text{Crescent}$$

\blacklozenge	=	5
\star	=	
\downarrow	=	
\blacksquare	=	
\triangle	=	
Envelope	=	1
Crescent	=	12
Heart	=	
L-Shape	=	
\oplus	=	
Rectangle	=	
Cylinder	=	8

Symbolic Scales

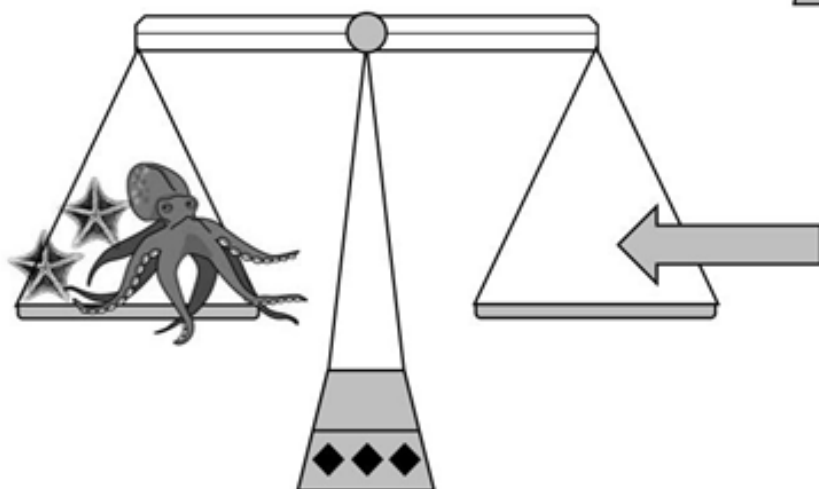
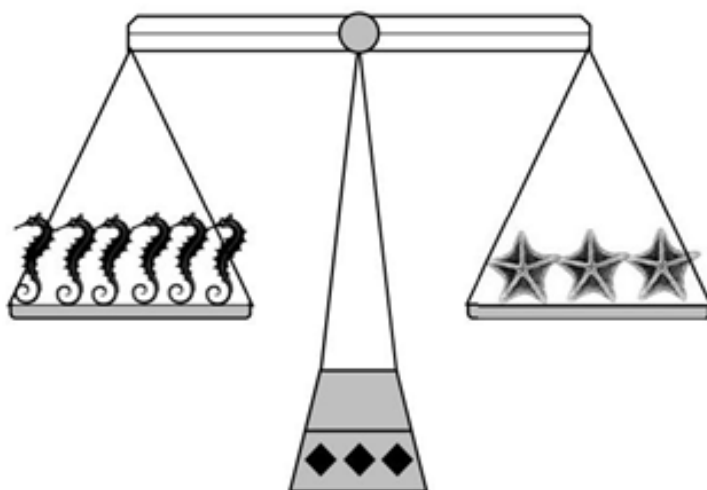
In these exercises you must determine the relative value of different objects by observing how they balance with each other, and using your mathematical deduction skills.

1



All of the scales shown are balanced

Observe the balanced relationships amongst the octopus, starfish and seahorses.



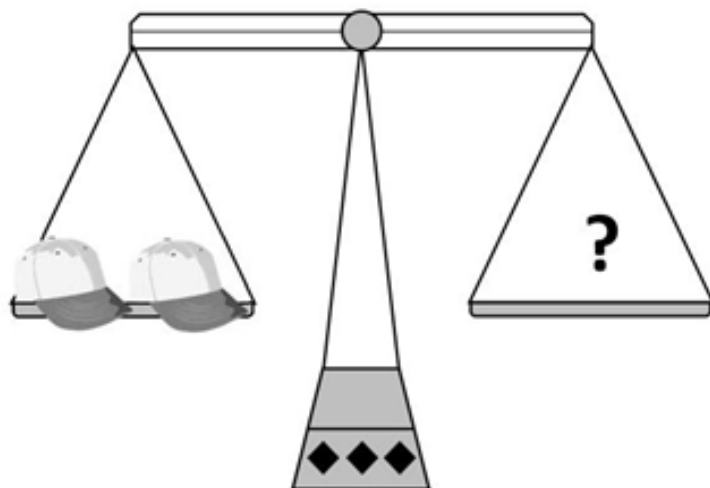
How many seahorses will be needed to balance the scales?

2



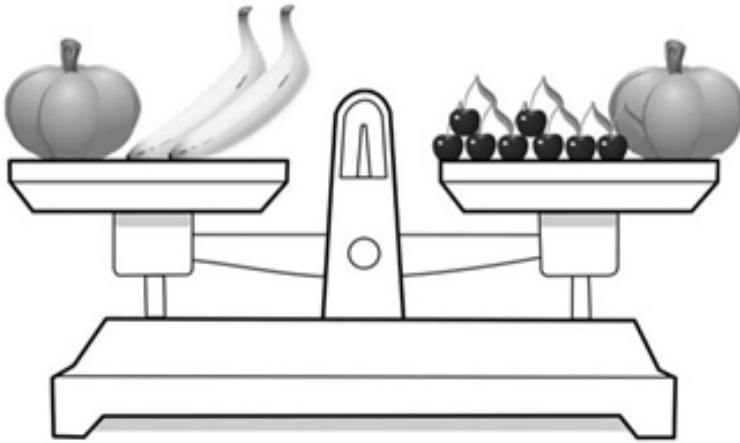
All of the scales shown are balanced

Observe the balanced relationships among the fedoras, party hats and caps.



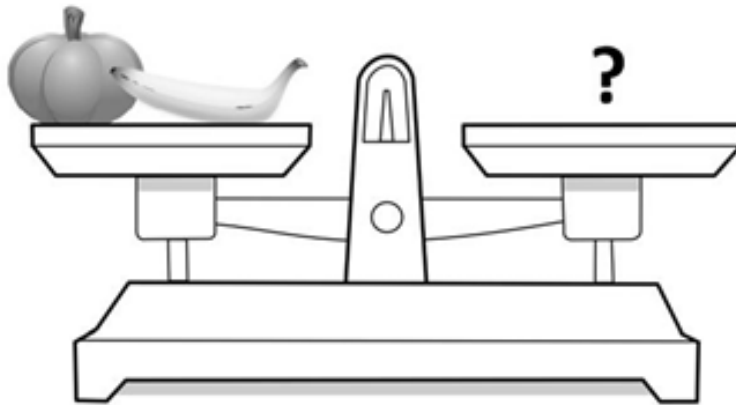
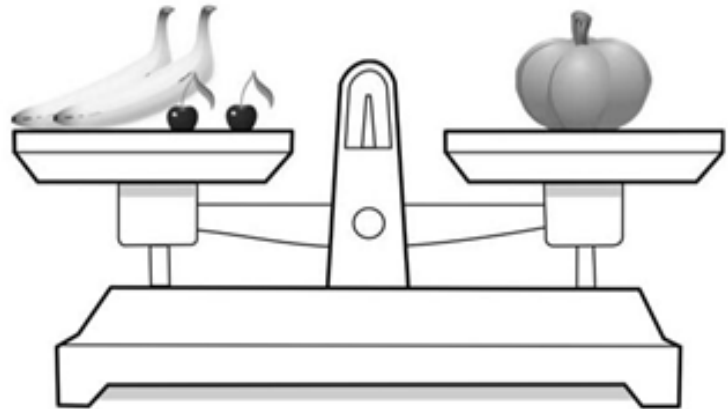
How many fedoras will be needed to balance the scales?

3



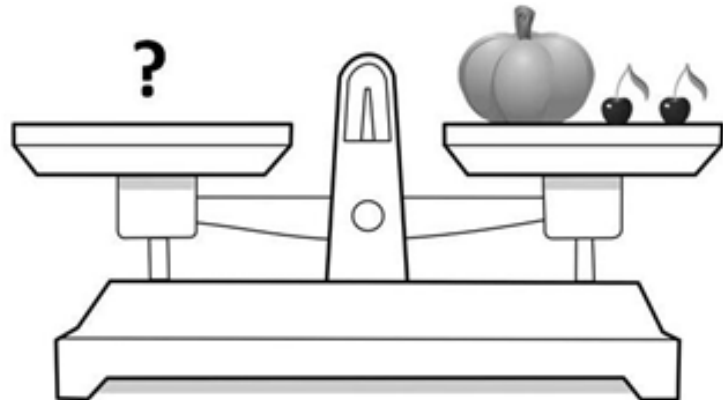
All of the scales shown are balanced

Observe the balanced relationships among the pumpkins, bananas, and cherries

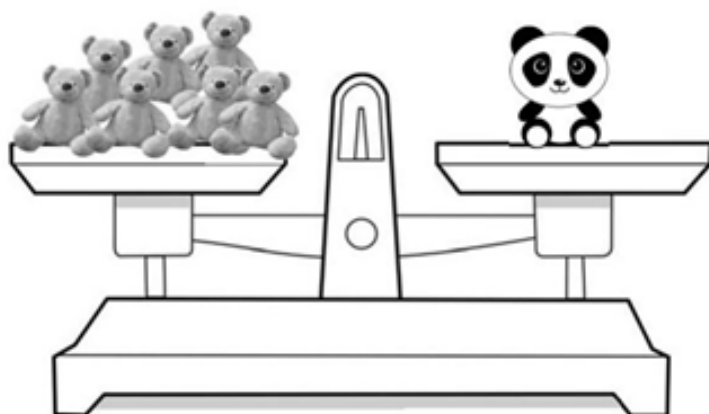


How many cherries will be needed to balance the scales?

How many bananas will be needed to balance the scales?

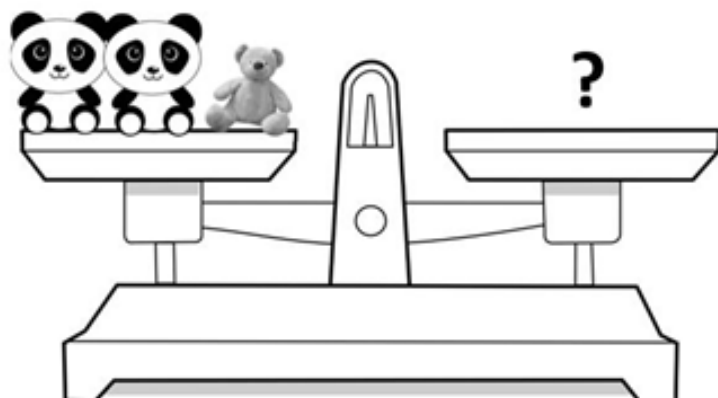
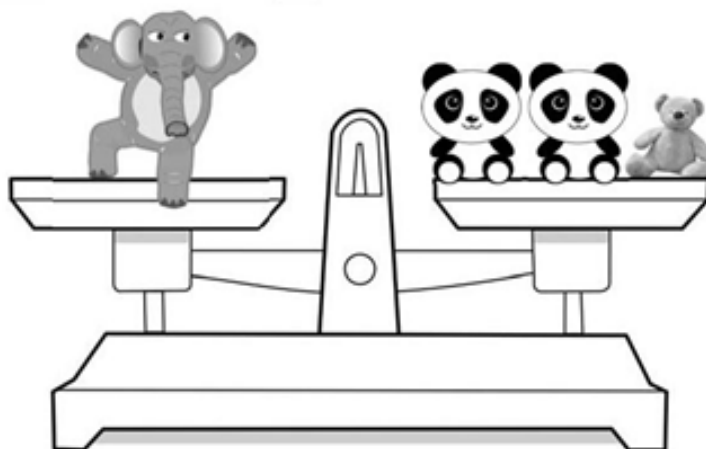


4



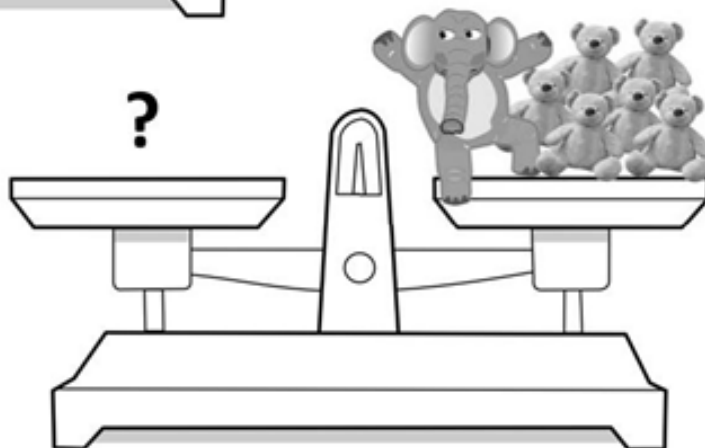
All of the scales shown are balanced

Observe the balanced relationships amongst the teddy bears, pandas and elephants



How many teddy bears will be needed to balance the scales?

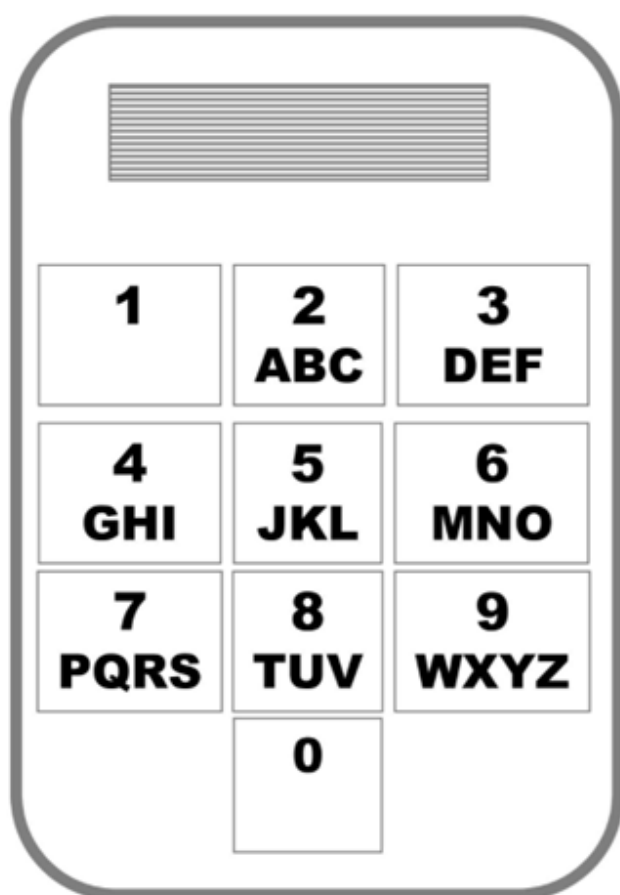
How many pandas will be needed to balance the scales?



Dial a Clue

Use the clue and the number to work out the mystery words. You can look at these examples to see if there is a pattern:

CLUE	CODE	MYSTERY WORD
ONLY	6 3 7 3	MERE
CENTRE	4 8 2	HUB



“May I have a clue, please.”

Dial a Clue

CLUE	CODE	MYSTERY WORD
DONATE	4 4 8 3	_____
DEBATE	8 2 5 5	_____
INTERVAL	2 7 3 2 5	_____
AJAR	6 7 3 6	_____
SCRUFFY	7 4 2 2 2 9	_____
CONTEMPORARY	6 6 3 3 7 6	_____
DELAYED	5 2 8 3	_____
SKETCH	3 7 2 9	_____
FRET	9 6 7 7 9	_____
LABYRINTH	6 2 9 4	_____
AGILE	6 4 6 2 5 3	_____
AVOID	7 4 8 6	_____
FOUNDATION	2 2 7 3	_____
SUBSEQUENT	6 3 9 8	_____
CRUEL	8 6 5 4 6 3	_____
COMBINE	2 5 3 6 3	_____
DOZEN	8 9 3 5 8 3	_____



Hidden Link



Find the vertical word linking all of the other words

1).

S C H O L A R
 E D U C A T E
 T E A C H E R
 T U T O R
 P E D A G O G U E
 I N S T R U C T O R
 M A S T E R
 T R A I N E R

2)

C A N N Y
 C A R E
 P R U D E N C E
 A T T E N T I O N
 D E L I B E R A T I O N
 T H O U G H T
 V I G I L E N C E

3)

D I S F I G U R E
 I M P A I R
 D E S T R O Y
 D E M O L I S H
 D E F I L E



Hidden Link



4) C H A N G E
M O D I F Y
T A I L O R
S H A P E
A L T E R

5) S P R E A D
S T R E T C H
L A T I T U D E
C A P A C I T Y
H O R I Z O N

6) A
I N C O G N I T O
P S E U D O
U N I D E N T I F I E D
M Y S T E R I O U S
U N N A M E D
J O H N D O E
U N C R E D I T E D
S E C R E T

BONUS – Match the word below that goes best with each set:

INTRIGUE
MORPH

UNIVERSITY
CONSIDERATION

SCAR

DISTANCE

SOARING SYNONYMS

Find a synonym for the given word. Using the point scoring values for each letter below, try to find the highest scoring synonym for each of the words. A score lower than the number given is worth zero, whilst any scores higher than the number will count as double.

A B C D E F G H	I J K L M N O P	Q R S T U V W X Y Z
1 3 3 4 1 4 2 3	1 5 4 3 3 4 1 4	5 3 2 2 1 5 3 5 2 5

EXAMPLE

ANSWER

LAVISH 15

EXTRAVAGANT (27 points) = 48 ← **Best Answer**
1 5 23 15 12 1 42

LUSH (9 points) = **zero** (less than 15 points)
3 12 3

EXCESSIVE (21 points) = 42
1 5 31 22151

OPULENT (15 points) = 15 (no bonus)
14 12 14 2

As you can see, some words can have many different answers. The goal is to try and come up with as many different words as possible.

SOARING SYNONYMS

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 1 3 3 4 1 4 2 3 1 5 4 3 3 4 1 4 5 3 2 2 1 5 3 5 2 5

	Number Given
MIMIC	10
CREATE	9
FAMISHED	15
COMPLETE	10
COMPLICATE	11
RENOWNED	12
DISOBEY	11
RELEASE	9
ATTEMPT	7
ARID	8
DEFECT	11
OBTAIN	5
WEARY	11
ARTIFICIAL	10
SCEPTICAL	19
DESPONDENT	9
IMPOVERISHED	9
THREATENED	13
OMINOUS	9



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