

Events that are impossible can **never** happen.
 Events that are possible **might** happen.
 Events that are certain will **definitely** happen.

Key words

- **impossible** مستحيل
- **possible** ممكن
- **certain** أكيد

1 Write these events into the correct side of the table.

- The Sun will come up tomorrow.
- September will be the next month after March.
- A cow will fly.
- Next year will be 2010.
- Someone will catch a bus in Abu Dhabi tomorrow.
- If I jump up in the air I will land back on the floor.

Impossible	Certain
September will be the next month after March. A cow will fly. Next year will be 2010.	The Sun will come up tomorrow. Someone will catch a bus in Abu Dhabi tomorrow. If I jump up in the air I will land back on the floor.

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النقود في الإمارات UAE Money



٢٥ فلساً
25 Fils



٥٠ فلساً
50 Fils



درهم واحد
One Dirham



خمسة دراهم
Five Dirhams



عشرة دراهم
Ten Dirhams



عشرون درهماً
Twenty Dirhams



خمسون درهماً
Fifty Dirhams



مائة درهم
One Hundred Dirhams



خمسمائة درهم
Five Hundred Dirhams



ألف درهم
One Thousand Dirhams

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- 1** Read the prices of the items then answer the questions in each box.

apples: 5 AED, 75 fils per kg
bananas: 8 AED, 25 fils per kg
potatoes: 12 AED, 25 fils per kg
melons: 1 AED, 50 fils each
carrots: 7 AED, 25 fils per kg
broccoli: 7 AED, 75 fils per kg



- a** Amer bought 1 kg of bananas and a melon. What did he pay for them?

1 kg of bananas = 8 AED, 25 fils
1 melon = 1 AED, 50 fils
Total = 9 AED, 75 fils

He paid with notes and coins.
What could they be?

Amer could have paid with a 5 AED note, four 1 AED coins, one 50 fils coin and one 25 fils coin.

Can you find a different answer?

or nine 1 AED coins, one 50 fils coin and one 25 fils coin.

- b** Kamis bought 1 kg of potatoes and 1 kg of apples. What did he pay for them?

1kg of potatoes = 12 AED, 25 fils
1kg of apples = 5 AED, 75 fils
Total = 18 AED

He paid with notes and coins.
What could they be?

Kamis could have paid with a 10 AED note, a 5 AED note and three 1 AED coins

Can you find a different answer?

or three 5 AED notes, a 1 AED coin and four 50 fils coins.

Practice!

هل تستطيع أن تحل هذه المسائل الخاصة باستخدام الدرهم الإماراتي؟
Can you work out the answer to these UAE money number stories?

1. ثمن ربطة العنق 2 درهم و ثمن القميص 3 دراهم. كم درهم تحتاج لشرايهما؟
1. The tie costs 2 dirhams and the t-shirt costs 3 dirhams. How many dirhams do you need to buy both?




$2 + 3 = \bigcirc$

2. ثمن العباية 1 درهم و ثمن الكندورة 2 درهم. كم الدراهم التي تحتاجها لشرايهما؟
2. The Abaya costs 1 dirham and the Kandura costs 2 dirhams how many dirhams do you need to buy both?



$1 + 2 = \bigcirc$

3. بعد أن تشتري العباية والكندورة كم درهم سيبقى معك؟
3. After you buy the Abaya and the Kandura. How many dirhams do you have left?



$5 - \bigcirc = \bigcirc$

4. ثمن التمر 1 درهم والشاورما 3 دراهم. كم درهم تحتاج لشرايهما؟
4. The date costs 1 dirham and the shawarma costs 3 dirhams. How many dirhams do you need to buy both?



$1 + 3 = \bigcirc$

5. ثمن الأناناس 3 دراهم. كم درهماً يبقى معك؟
5. The pineapple costs 3 dirhams. How many dirhams do you get back in change?



$5 - 3 = \bigcirc$

Dinosaur Themed Rounding to 10

Round the numbers below to the nearest 10. The first one has been done for you.

63 → 60

37 →

44 →

19 →

12 →

98 →

75 →

72 →

23 →

66 →

56 →

88 →

91 →

55 →

Practice!

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Practice!

Superhero Themed Rounding to 10

Round the numbers below to the nearest 10. The first one has been done for you.

52 → 50

55 → ___

68 → ___

41 → ___

25 → ___

91 → ___

39 → ___

54 → ___

16 → ___

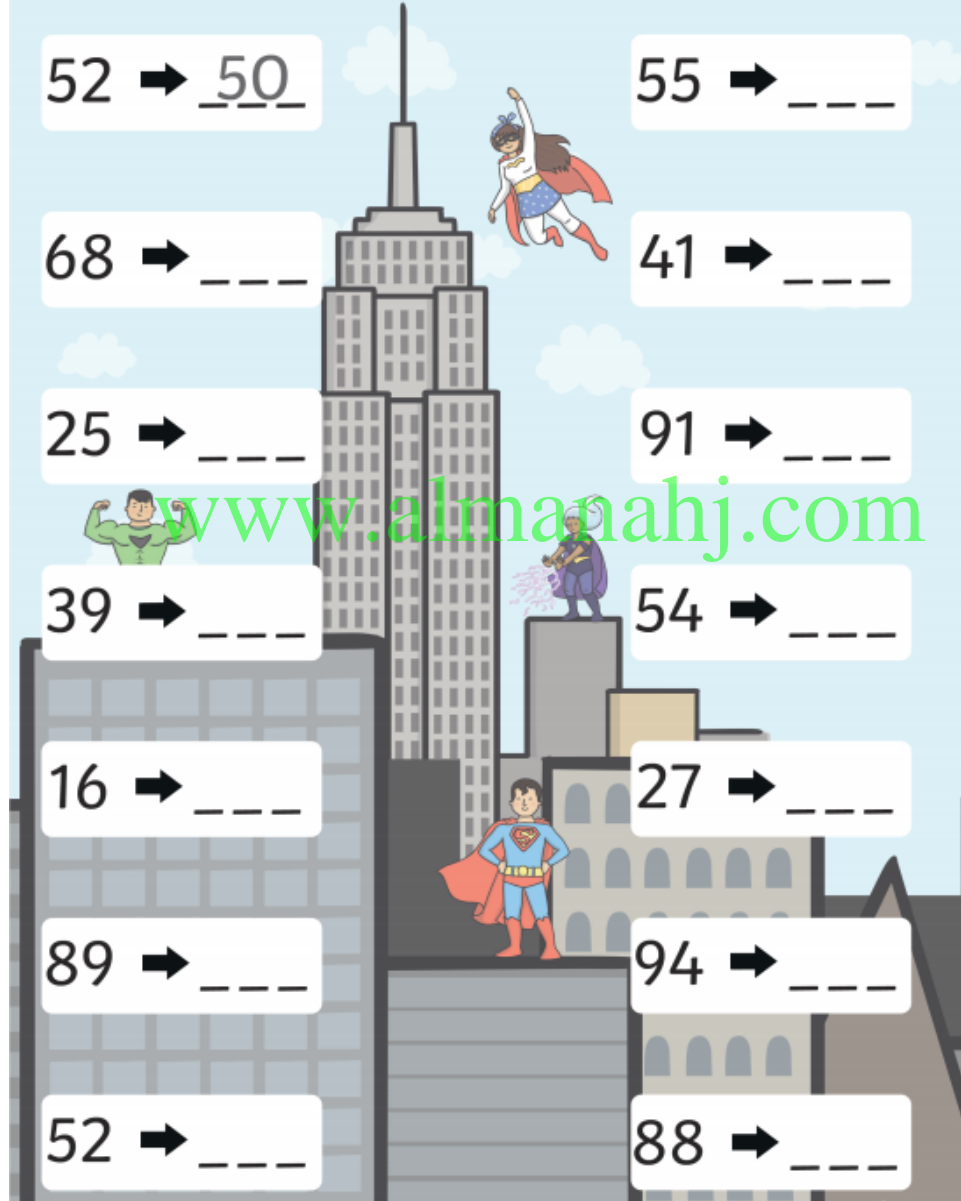
27 → ___

89 → ___

94 → ___

52 → ___

88 → ___



3 Alia kept a record of the money they spent on food.

Use rounding to create an estimate that can be used to assess the reasonableness of each total.

Describe the accuracy of your estimations. The first row has been completed

Day / Amount spent	Monday	Tuesday	Wednesday
	151 AED + 129 AED	278 AED + 221 AED	391 AED + 432 AED
Alia's estimate	180	499	823
My estimate	$150 + 130 = 280$	$300 + 200 = 500$	$400 + 400 = 800$
I think Alia's estimate is...	Not reasonable	Reasonable	Reasonable
Accuracy of my estimation	This will be close to the actual answer as both numbers have only been rounded a little bit.	This will be close to the actual answer as both numbers have been rounded to the nearest hundred.	This will be close to the actual answer as both numbers have been rounded to the nearest hundred.

Problem	Partition the larger number	Model and enter the values in the grid	Answer
84×3	$84 = 80 + 4$	$ \begin{array}{r} 80 \quad 4 \\ 3 \quad \boxed{240} \quad \boxed{12} \end{array} $	$240 + 12 = 252$
36×4	$36 = 30 + 6$	$ \begin{array}{r} 30 \quad 6 \\ 4 \quad \boxed{120} \quad \boxed{24} \end{array} $	$120 + 24 = 144$
69×7	$69 = 60 + 9$	$ \begin{array}{r} 60 \quad 9 \\ 7 \quad \boxed{420} \quad \boxed{63} \end{array} $	$420 + 63 = 483$

Problem	Partition the larger number	Enter the values in the grid	Answer
$78 \div 3$	$78 = 60 + 18$	$3 \begin{array}{ c c } \hline 60 & 18 \\ \hline 20 & 6 \\ \hline \end{array}$	$20 + 6 = 26$
$84 \div 7$	$84 = 70 + 14$	$7 \begin{array}{ c c } \hline 70 & 14 \\ \hline 10 & 2 \\ \hline \end{array}$	$10 + 2 = 12$
$75 \div 5$	$75 = 70 + 5$	$5 \begin{array}{ c c } \hline 70 & 5 \\ \hline 14 & 1 \\ \hline \end{array}$	$14 + 1 = 15$
$96 \div 4$	$96 = 80 + 16$	$4 \begin{array}{ c c } \hline 80 & 16 \\ \hline 20 & 4 \\ \hline \end{array}$	$20 + 4 = 24$

Problem	Partition the larger number	Enter values in grid	Answer
$64 \div 4$	$64 = 40 + 24$	$\begin{array}{r} 40 \quad 24 \\ 4 \quad \boxed{10} \quad \boxed{6} \end{array}$	$10 + 6 = 16$
$96 \div 8$	$96 = 80 + 16$	$\begin{array}{r} 80 \quad 16 \\ 8 \quad \boxed{10} \quad \boxed{2} \end{array}$	$10 + 2 = 12$
$84 \div 6$	$84 = 60 + 24$	$\begin{array}{r} 60 \quad 24 \\ 6 \quad \boxed{10} \quad \boxed{4} \end{array}$	$10 + 4 = 14$

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1

$$\begin{aligned} 1 \times 1 &= 1 \\ 2 \times 1 &= 2 \\ 3 \times 1 &= 3 \\ 4 \times 1 &= 4 \\ 5 \times 1 &= 5 \\ 6 \times 1 &= 6 \\ 7 \times 1 &= 7 \\ 8 \times 1 &= 8 \\ 9 \times 1 &= 9 \\ 10 \times 1 &= 10 \\ 11 \times 1 &= 11 \\ 12 \times 1 &= 12 \end{aligned}$$

2

$$\begin{aligned} 1 \times 2 &= 2 \\ 2 \times 2 &= 4 \\ 3 \times 2 &= 6 \\ 4 \times 2 &= 8 \\ 5 \times 2 &= 10 \\ 6 \times 2 &= 12 \\ 7 \times 2 &= 14 \\ 8 \times 2 &= 16 \\ 9 \times 2 &= 18 \\ 10 \times 2 &= 20 \\ 11 \times 2 &= 22 \\ 12 \times 2 &= 24 \end{aligned}$$

3

$$\begin{aligned} 1 \times 3 &= 3 \\ 2 \times 3 &= 6 \\ 3 \times 3 &= 9 \\ 4 \times 3 &= 12 \\ 5 \times 3 &= 15 \\ 6 \times 3 &= 18 \\ 7 \times 3 &= 21 \\ 8 \times 3 &= 24 \\ 9 \times 3 &= 27 \\ 10 \times 3 &= 30 \\ 11 \times 3 &= 33 \\ 12 \times 3 &= 36 \end{aligned}$$

4

$$\begin{aligned} 1 \times 4 &= 4 \\ 2 \times 4 &= 8 \\ 3 \times 4 &= 12 \\ 4 \times 4 &= 16 \\ 5 \times 4 &= 20 \\ 6 \times 4 &= 24 \\ 7 \times 4 &= 28 \\ 8 \times 4 &= 32 \\ 9 \times 4 &= 36 \\ 10 \times 4 &= 40 \\ 11 \times 4 &= 44 \\ 12 \times 4 &= 48 \end{aligned}$$

2

$$\begin{aligned} 2 \div 2 &= 1 \\ 4 \div 2 &= 2 \\ 6 \div 2 &= 3 \\ 8 \div 2 &= 4 \\ 10 \div 2 &= 5 \\ 12 \div 2 &= 6 \\ 14 \div 2 &= 7 \\ 16 \div 2 &= 8 \\ 18 \div 2 &= 9 \\ 20 \div 2 &= 10 \\ 22 \div 2 &= 11 \\ 24 \div 2 &= 12 \end{aligned}$$

3

$$\begin{aligned} 3 \div 3 &= 1 \\ 6 \div 3 &= 2 \\ 9 \div 3 &= 3 \\ 12 \div 3 &= 4 \\ 15 \div 3 &= 5 \\ 18 \div 3 &= 6 \\ 21 \div 3 &= 7 \\ 24 \div 3 &= 8 \\ 27 \div 3 &= 9 \\ 30 \div 3 &= 10 \\ 33 \div 3 &= 11 \\ 36 \div 3 &= 12 \end{aligned}$$

4

$$\begin{aligned} 4 \div 4 &= 1 \\ 8 \div 4 &= 2 \\ 12 \div 4 &= 3 \\ 16 \div 4 &= 4 \\ 20 \div 4 &= 5 \\ 24 \div 4 &= 6 \\ 28 \div 4 &= 7 \\ 32 \div 4 &= 8 \\ 36 \div 4 &= 9 \\ 40 \div 4 &= 10 \\ 44 \div 4 &= 11 \\ 48 \div 4 &= 12 \end{aligned}$$

5

$$\begin{aligned} 5 \div 5 &= 1 \\ 10 \div 5 &= 2 \\ 15 \div 5 &= 3 \\ 20 \div 5 &= 4 \\ 25 \div 5 &= 5 \\ 30 \div 5 &= 6 \\ 35 \div 5 &= 7 \\ 40 \div 5 &= 8 \\ 45 \div 5 &= 9 \\ 50 \div 5 &= 10 \\ 55 \div 5 &= 11 \\ 60 \div 5 &= 12 \end{aligned}$$

5

$$\begin{aligned} 1 \times 5 &= 5 \\ 2 \times 5 &= 10 \\ 3 \times 5 &= 15 \\ 4 \times 5 &= 20 \\ 5 \times 5 &= 25 \\ 6 \times 5 &= 30 \\ 7 \times 5 &= 35 \\ 8 \times 5 &= 40 \\ 9 \times 5 &= 45 \\ 10 \times 5 &= 50 \\ 11 \times 5 &= 55 \\ 12 \times 5 &= 60 \end{aligned}$$

6

$$\begin{aligned} 1 \times 6 &= 6 \\ 2 \times 6 &= 12 \\ 3 \times 6 &= 18 \\ 4 \times 6 &= 24 \\ 5 \times 6 &= 30 \\ 6 \times 6 &= 36 \\ 7 \times 6 &= 42 \\ 8 \times 6 &= 48 \\ 9 \times 6 &= 54 \\ 10 \times 6 &= 60 \\ 11 \times 6 &= 66 \\ 12 \times 6 &= 72 \end{aligned}$$

7

$$\begin{aligned} 1 \times 7 &= 7 \\ 2 \times 7 &= 14 \\ 3 \times 7 &= 21 \\ 4 \times 7 &= 28 \\ 5 \times 7 &= 35 \\ 6 \times 7 &= 42 \\ 7 \times 7 &= 49 \\ 8 \times 7 &= 56 \\ 9 \times 7 &= 63 \\ 10 \times 7 &= 70 \\ 11 \times 7 &= 77 \\ 12 \times 7 &= 84 \end{aligned}$$

8

$$\begin{aligned} 1 \times 8 &= 8 \\ 2 \times 8 &= 16 \\ 3 \times 8 &= 24 \\ 4 \times 8 &= 32 \\ 5 \times 8 &= 40 \\ 6 \times 8 &= 48 \\ 7 \times 8 &= 56 \\ 8 \times 8 &= 64 \\ 9 \times 8 &= 72 \\ 10 \times 8 &= 80 \\ 11 \times 8 &= 88 \\ 12 \times 8 &= 96 \end{aligned}$$

6

$$\begin{aligned} 6 \div 6 &= 1 \\ 12 \div 6 &= 2 \\ 18 \div 6 &= 3 \\ 24 \div 6 &= 4 \\ 30 \div 6 &= 5 \\ 36 \div 6 &= 6 \\ 42 \div 6 &= 7 \\ 48 \div 6 &= 8 \\ 54 \div 6 &= 9 \\ 60 \div 6 &= 10 \\ 66 \div 6 &= 11 \\ 72 \div 6 &= 12 \end{aligned}$$

7

$$\begin{aligned} 7 \div 7 &= 1 \\ 14 \div 7 &= 2 \\ 21 \div 7 &= 3 \\ 28 \div 7 &= 4 \\ 35 \div 7 &= 5 \\ 42 \div 7 &= 6 \\ 49 \div 7 &= 7 \\ 56 \div 7 &= 8 \\ 63 \div 7 &= 9 \\ 70 \div 7 &= 10 \\ 77 \div 7 &= 11 \\ 84 \div 7 &= 12 \end{aligned}$$

8

$$\begin{aligned} 8 \div 8 &= 1 \\ 16 \div 8 &= 2 \\ 24 \div 8 &= 3 \\ 32 \div 8 &= 4 \\ 40 \div 8 &= 5 \\ 48 \div 8 &= 6 \\ 56 \div 8 &= 7 \\ 64 \div 8 &= 8 \\ 72 \div 8 &= 9 \\ 80 \div 8 &= 10 \\ 88 \div 8 &= 11 \\ 96 \div 8 &= 12 \end{aligned}$$

9

$$\begin{aligned} 9 \div 9 &= 1 \\ 18 \div 9 &= 2 \\ 27 \div 9 &= 3 \\ 36 \div 9 &= 4 \\ 45 \div 9 &= 5 \\ 54 \div 9 &= 6 \\ 63 \div 9 &= 7 \\ 72 \div 9 &= 8 \\ 81 \div 9 &= 9 \\ 90 \div 9 &= 10 \\ 99 \div 9 &= 11 \\ 108 \div 9 &= 12 \end{aligned}$$

9

$$\begin{aligned} 1 \times 9 &= 9 \\ 2 \times 9 &= 18 \\ 3 \times 9 &= 27 \\ 4 \times 9 &= 36 \\ 5 \times 9 &= 45 \\ 6 \times 9 &= 54 \\ 7 \times 9 &= 63 \\ 8 \times 9 &= 72 \\ 9 \times 9 &= 81 \\ 10 \times 9 &= 90 \\ 11 \times 9 &= 99 \\ 12 \times 9 &= 108 \end{aligned}$$

10

$$\begin{aligned} 1 \times 10 &= 10 \\ 2 \times 10 &= 20 \\ 3 \times 10 &= 30 \\ 4 \times 10 &= 40 \\ 5 \times 10 &= 50 \\ 6 \times 10 &= 60 \\ 7 \times 10 &= 70 \\ 8 \times 10 &= 80 \\ 9 \times 10 &= 90 \\ 10 \times 10 &= 100 \\ 11 \times 10 &= 110 \\ 12 \times 10 &= 120 \end{aligned}$$

11

$$\begin{aligned} 1 \times 11 &= 11 \\ 2 \times 11 &= 22 \\ 3 \times 11 &= 33 \\ 4 \times 11 &= 44 \\ 5 \times 11 &= 55 \\ 6 \times 11 &= 66 \\ 7 \times 11 &= 77 \\ 8 \times 11 &= 88 \\ 9 \times 11 &= 99 \\ 10 \times 11 &= 110 \\ 11 \times 11 &= 121 \\ 12 \times 11 &= 132 \end{aligned}$$

12

$$\begin{aligned} 1 \times 12 &= 12 \\ 2 \times 12 &= 24 \\ 3 \times 12 &= 36 \\ 4 \times 12 &= 48 \\ 5 \times 12 &= 60 \\ 6 \times 12 &= 72 \\ 7 \times 12 &= 84 \\ 8 \times 12 &= 96 \\ 9 \times 12 &= 108 \\ 10 \times 12 &= 120 \\ 11 \times 12 &= 132 \\ 12 \times 12 &= 144 \end{aligned}$$

10

$$\begin{aligned} 10 \div 10 &= 1 \\ 20 \div 10 &= 2 \\ 30 \div 10 &= 3 \\ 40 \div 10 &= 4 \\ 50 \div 10 &= 5 \\ 60 \div 10 &= 6 \\ 70 \div 10 &= 7 \\ 80 \div 10 &= 8 \\ 90 \div 10 &= 9 \\ 100 \div 10 &= 10 \\ 110 \div 10 &= 11 \\ 120 \div 10 &= 12 \end{aligned}$$

11

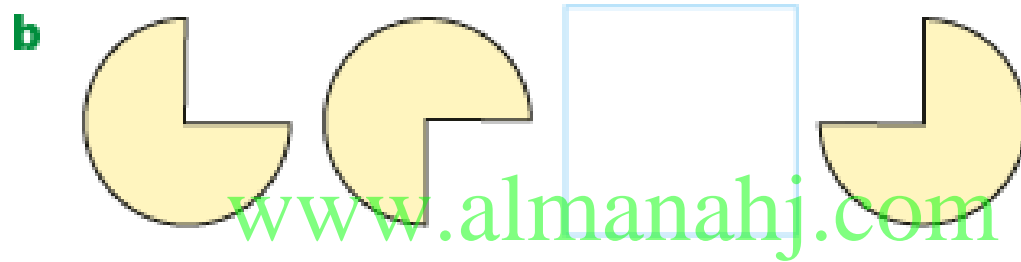
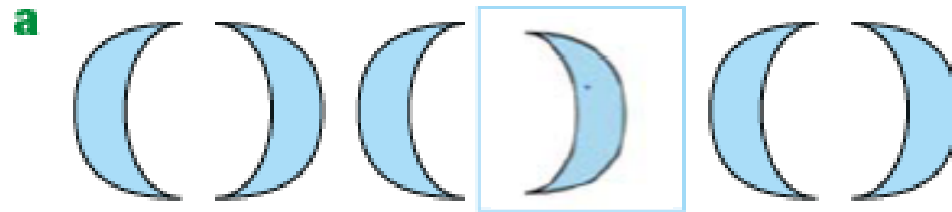
$$\begin{aligned} 11 \div 11 &= 1 \\ 22 \div 11 &= 2 \\ 33 \div 11 &= 3 \\ 44 \div 11 &= 4 \\ 55 \div 11 &= 5 \\ 66 \div 11 &= 6 \\ 77 \div 11 &= 7 \\ 88 \div 11 &= 8 \\ 99 \div 11 &= 9 \\ 110 \div 11 &= 10 \\ 121 \div 11 &= 11 \\ 132 \div 11 &= 12 \end{aligned}$$

12

$$\begin{aligned} 12 \div 12 &= 1 \\ 24 \div 12 &= 2 \\ 36 \div 12 &= 3 \\ 48 \div 12 &= 4 \\ 60 \div 12 &= 5 \\ 72 \div 12 &= 6 \\ 84 \div 12 &= 7 \\ 96 \div 12 &= 8 \\ 108 \div 12 &= 9 \\ 120 \div 12 &= 10 \\ 132 \div 12 &= 11 \\ 144 \div 12 &= 12 \end{aligned}$$

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2 For both of the patterns, build the pattern and fill in the gap.

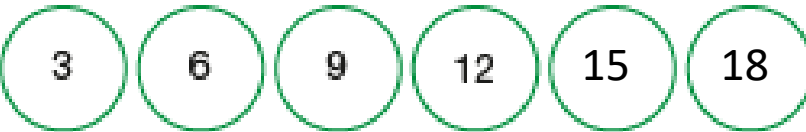


Describe this pattern:



A pattern of circles and triangles that gets bigger with one circle and one triangle each term.

1 Write the next two terms for each number pattern.

a  3 6 9 12 15 18

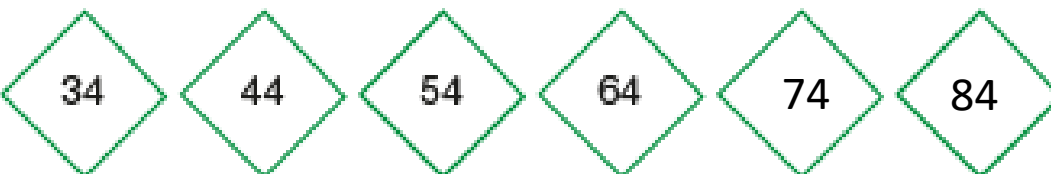
b  4 10 16 22 28 34

c  3 6 12 24 48 96

d  4 8 16 32 15 15

e  30 26 22 18 14 10

f  95 93 91 89 87 85

g  34 44 54 64 74 84

h  17 22 27 32 37 42

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A number sentence is a mathematical sentence written in numerals and symbols, for example

$$4 + 1 = 5.$$

Both sides of the sentence balance. That is why we use the 'equals' symbol.

Sometimes, we do not know one of the numbers in a number sentence.

We can use a box or another shape to represent this unknown number, for example,

$$6 = \square + 2.$$

We solve the number sentence by working out the unknown number.



1 For each sentence, find the unknown.

a $6 + \square = 9$

b $\square - 8 = 9$

c $\square + 5 = 8$

d $12 - \square = 4$

e $13 + \square = 24$

f $\square - 13 = 6$

g $\square + 19 = 32$

h $20 - \square = 3$

i $18 + \square = 37$

2 For each sentence, find the unknown.

a $5 + \square = 12 - 3$

b $5 + 9 = \square + 2$

c $\square - 7 = 5 + 2$

d $18 - 7 = 16 - \square$

e $\square + 15 = 19 - 2$

f $16 + 3 = 13 + \square$

g $20 - 7 = \square + 2$

h $19 - \square = 20 - 4$

i $\square + 10 = 17 - 2$

Key words

• number sentence

جملة عددية

• number sequence

أعداد متتالية

• equal

يساوي

• unknown

غير معروف

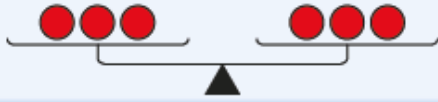
• commutative

استبدالى؛ تبادلى

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In a balance problem, the pans of the balance contain shapes or other objects. Each shape represents a value.

To solve a balance problem, you have to make the values on each side of the scales balance.



Key words

- balance الفرق
- image الصورة
- same as نفس الـ
- equals يساوي

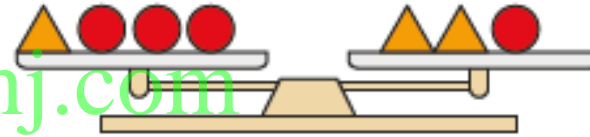
1 Write a sentence to describe each of these balance diagrams. The first one is done for you.

a



Four bananas and one orange is the same as two bananas and two oranges.

b



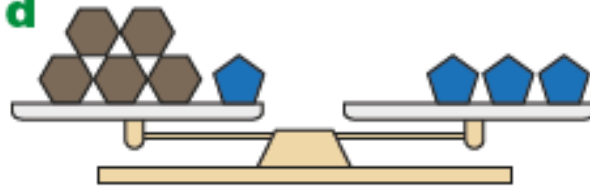
One triangle and three circles is the same as two triangles and one circle.

c



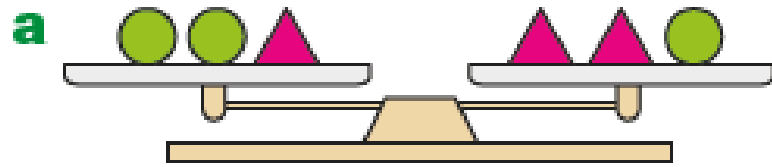
Two arrows and one smiley face is the same as one arrow and three smiley faces.

d

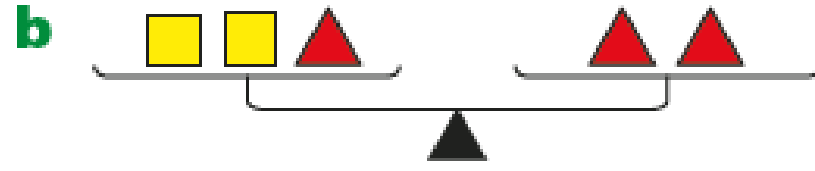


Five hexagons and one pentagon is the same as three pentagons.

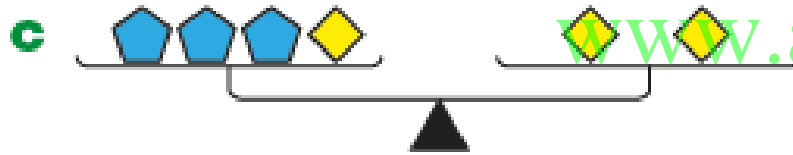
2 Find the unknown numbers.



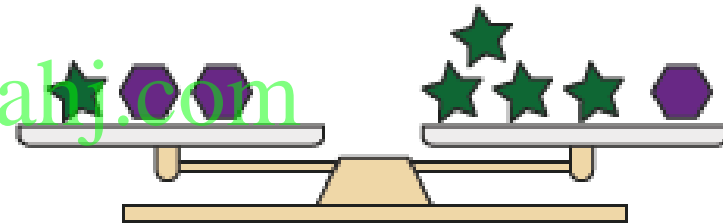
If $\text{circle} = 10$, $\text{triangle} = \boxed{10}$



If $\text{square} = 10$, $\text{triangle} = \boxed{20}$



If $\text{pentagon} = 3$, $\text{diamond} = \boxed{9}$



If $\text{hexagon} = 15$, $\text{star} = \boxed{5}$

We break down days by the length of time it takes the Earth to rotate on its axis. This takes 24 hours. We break down years by the length of time it takes the Earth to travel around the Sun. This takes about 365 days.

1 minute = 60 seconds 1 hour = 60 minutes
1 day = 24 hours 1 week = 7 days
1 month = 30 days (approximately)

Key words

- minute دقيقة
- hour ساعة
- day يوم
- week أسبوع
- month شهر

20. How many hours are there in 5 days?

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- a) 24 hours
- b) 96 hours
- c) 120 hours
- d) 168 hours

Remember that 'am' is used for the times from midnight to midday and 'pm' is used from midday to midnight. We can think of this as am being in the morning and pm in the afternoon/evening.

7:30 am is half past seven in the morning

7:30 pm is half past seven in the evening

Key words

- digital clock ساعة رقمية
- am ٩ درجة
- pm وقت المساء
- midnight منتصف الليل
- midday منتصف اليوم

1 Complete the sentence and circle am or pm.

a I wake up at am / pm.

b I arrive at school at am / pm.

c I have lunch at am / pm.

d I get ready for bed at am / pm.

2 Discuss these pictures with a partner. Draw a line matching the pictures to the correct time.

11:00 am

11:00 pm

9:15 am

9:15 pm

2:45 am

2:45 pm

1:30 am

1:30 pm

22. What is the **difference** in minutes between the two times on the watches?

- a) 20 minutes
- b) 30 minutes
- c) 60 minutes
- d) 80 minutes



- 1 Here is a timetable for Abu Dhabi International Airport Arrivals.

Arrivals	
Origin	Arrival Time
Riyadh	6.30 pm
Cairo	7.00 pm
Khartoum	7.20 pm
Larnaca	7.30 pm
Chicago	8.10 pm
Toronto	8.35 pm
Munich	9.05 pm
Manchester	9.45 pm

When does the flight arrive from:

- a Cairo? 7pm
- b Riyadh? 6:30pm
- c Larnaca? 7:30pm
- d Khartoum? 7:20pm
- e Chicago? 8:10pm
- f Munich? 9:05pm
- g Manchester? 9:45pm
- h Toronto? 8:35pm

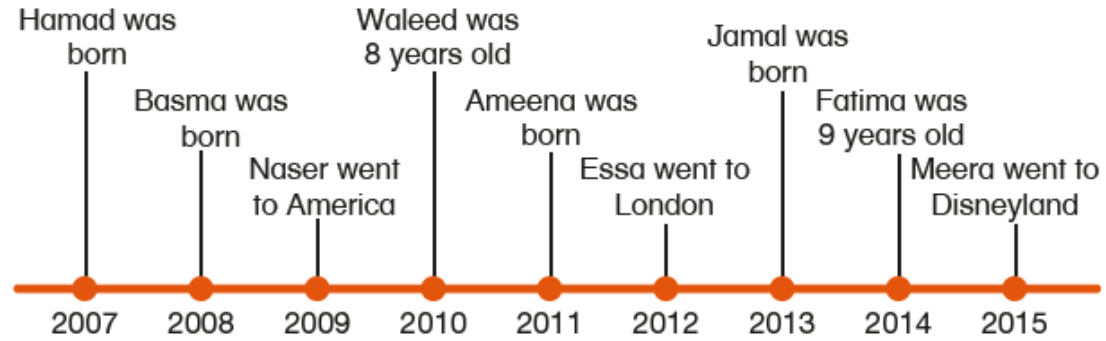
- 2 Here is a timetable for Abu Dhabi International Airport Arrivals.

Arrivals	
Origin	Arrival Time
London	2.30 pm
Madrid	3.10 pm
Paris	4.15 pm

When does the flight arrive from:

- a Madrid? 3:10pm
- b London? 2:30pm
- c Paris? 4:15pm

Here is a timeline of events.



1 Who was born in:

a 2008?

Basma

b 2011?

Ameena

c 2013?

Jamal

d 2007?

Hamad

2 What happened in:

a 2009?

Naser went to America.

b 2012?

Essa went to London.

c 2015?

Meera went to Disneyland.

d 2010?

Waleed was 8 years old.

3 What year did these things happen?

a Basma was born

2008

b Essa went to London

2012

c Fatima was 9 years old

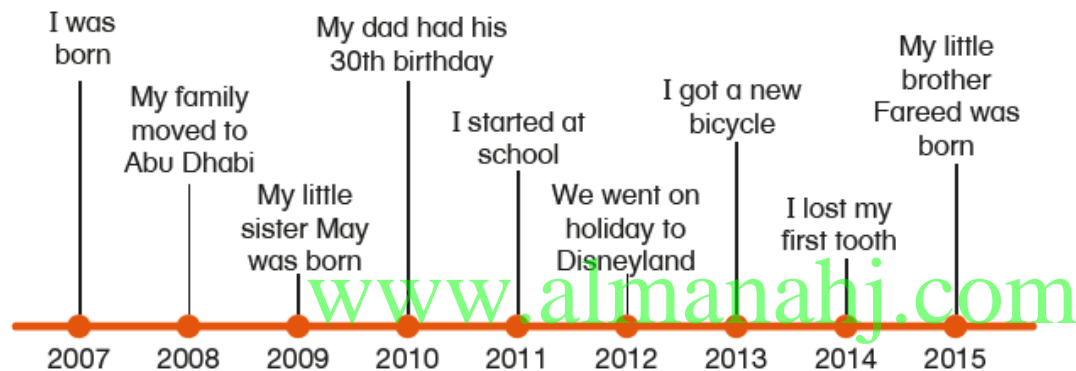
2014

d Ameena was born

2011



My name is Khalid.
Here is a timeline about me.



1 When did these things happen?

- a I started at school **2011** b My brother was born **2015**
c My dad was 30 **2010** d I got a new bicycle **2013**

2 What happened in this year?

- a 2008 **My family moved to Abu Dhabi.**
b 2012 **We went on holiday to Disneyland.**
c 2014 **I lost my first tooth.**

millimetre
mm

centimetre
cm

metre
m

kilometre
km

Length

1cm = 10mm
1m = 100cm
1km = 1000m

cm to mm (x10)
e.g. 4cm = 40mm

m to cm (x100)
e.g. 12m = 1200cm

km to m (x1000)
e.g. 17km = 17000m

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26. Look at the following conversion from cm to m and circle the correct answer.

400cm = _____ m

- a) 4 m
b) 40 m
c) 44 m
d) 400 m

27. Complete the following table.

cm	800cm	900cm	1,400cm	10,000cm
m	8m	9m	14m	100m

Volume is the amount of three-dimensional space inside a container.

It is measured in cubic centimetres, cubic metres and any measure of length, for example 10 cubic cm (cubic centimetres).

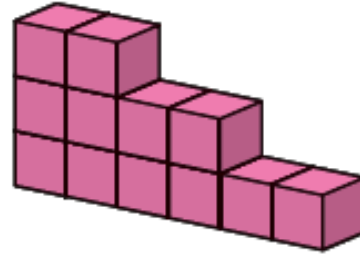
Key words

- measure قياس
- volume السعة
- cubic centimetre سنتيمتر مربع
- cubic metre متر مكعب

2 Write the volume of each shape.

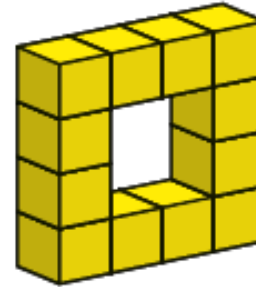
a Volume:

12 cubic cm



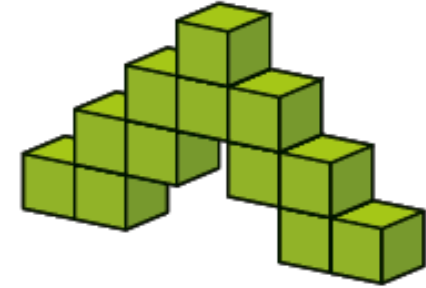
b Volume:

12 cubic cm



c Volume:

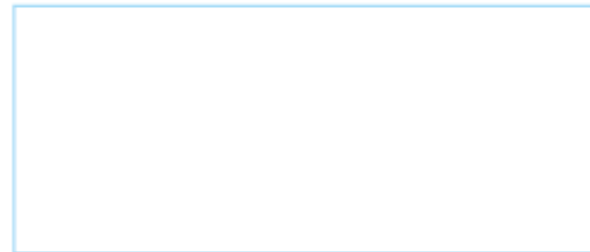
12 cubic cm



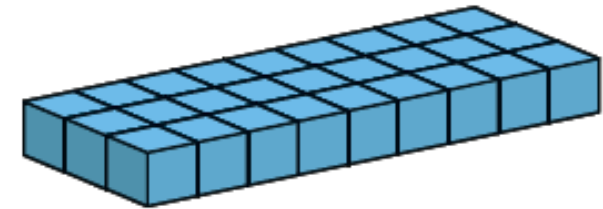
d What is special about all of these shapes?

www.almanahj.com They are different shapes but they have the same volume.

2 a Manal made a shape. It had a volume of 16 cubes. Each side of her shape was a rectangle. Sketch one of the possible shapes that she could have made.












b Dana made this shape.



What is the volume of Dana's shape?



Volume: 27 cubic cm



- 1 The cuboids in the table are building blocks for making models. Calculate the total volume of models made from each set of building blocks. The first one has been completed for you.

Block 1	Block 2	Block 3	Total volume
			12 cubic cm + 10 cubic cm + 12 cubic cm = 34 cubic cm
			16 cubic cm + 12 cubic cm + 11 cubic cm = 39 cubic cm
			9 cubic cm + 13 cubic cm + 16 cubic cm = 38 cubic cm

- 2 An artist is building a large sculpture in a park. Each section of the sculpture is made from two parts. Each part is made of 1 metre cubes.

- a Calculate the volume of each part.

Section A  14 cubic m  15 cubic m

Section B  14 cubic m  12 cubic m