

Numbers to 20

Warm up

a) $4 + 7 = \dots\dots$

b) $11 + 8 = \dots\dots$

c) $12 + 2 = \dots\dots$

d) $10 + 7 = \dots\dots$

e) $9 + 5 = \dots\dots$

f) $12 + 6 = \dots\dots$

g) $14 + 3 = \dots\dots$

h) $15 + 4 = \dots\dots$

Learn about

It is useful to know your **number bonds to 20**.
Fill in the gaps so each number sentence totals 20.

a) $12 + \dots\dots = 20$

b) $4 + \dots\dots = 20$

c) $17 + \dots\dots = 20$

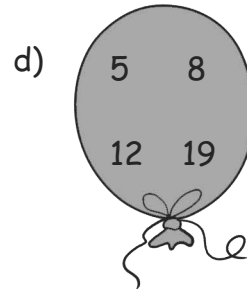
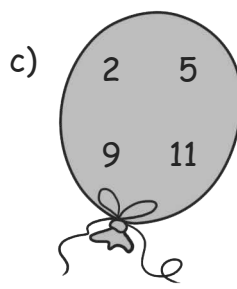
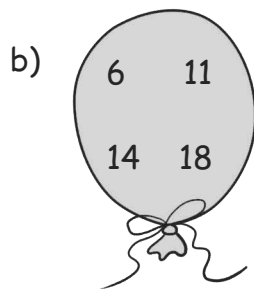
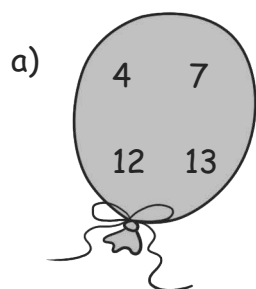
d) $\dots\dots + 13 = 20$

e) $\dots\dots + 5 = 20$

f) $\dots\dots + 18 = 20$

Now try these

1. In each group, circle the two numbers that total 20.




2. Jake had saved £9 and for his birthday he was given £11. How much money did Jake now have? £

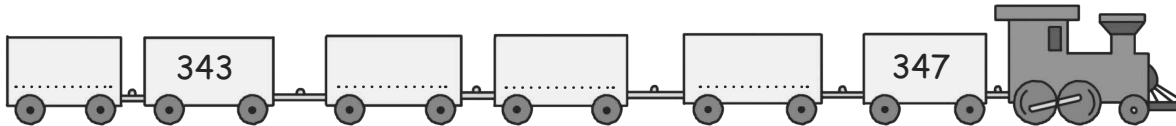
3. Balloons were tied all around the house to celebrate Jake's birthday. There were 7 outside, 6 in the living room and 7 in the kitchen. How many balloons were there altogether?


Counting in steps

Warm up

Fill in the missing numbers.

a) 

b) 

c) 

Learn about

First you need to find the **rule** when counting in steps. Look carefully at these number lines. Write the rules.

a) 342 340 338 336 334

rule =

b) 991 994 997 1000 1003

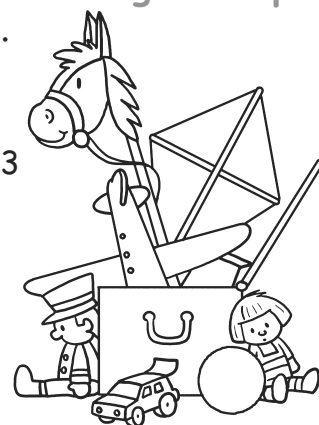
rule =

c) 122 126 130 134 138

rule =

d) 40 36 32 28 24


rule =

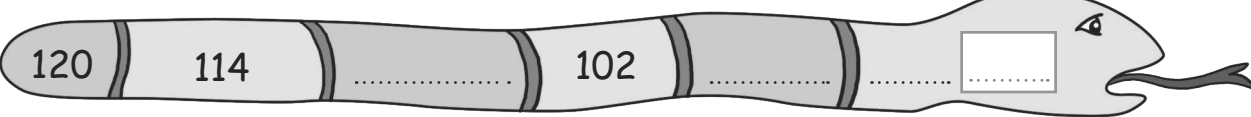



Now try these

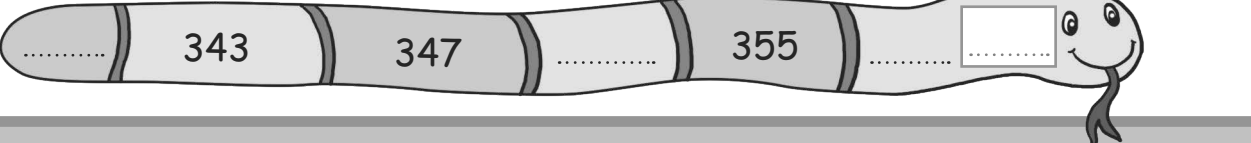
Fill in the missing numbers.

Remember to find the rule first!

a) 

b) 

c) 

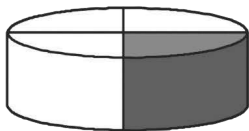
d) 

Fractions

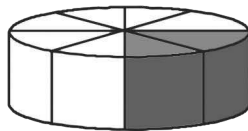
▼ Warm up

Write a different **fraction** for each pie.

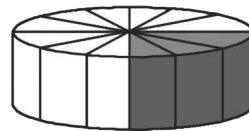
a)



b)



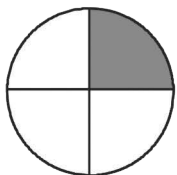
c)



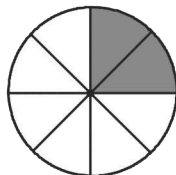
▼ Learn about

'**Equivalent**' means 'having the same value'. **Equivalent fractions** have the same value. These are all equivalent fractions.

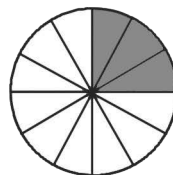
$$\frac{1}{4}$$



$$\frac{2}{8}$$



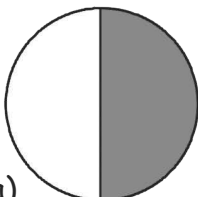
$$\frac{3}{12}$$



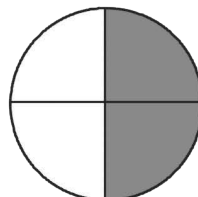
▼ Now try these

1. Write each of these equivalent fractions.

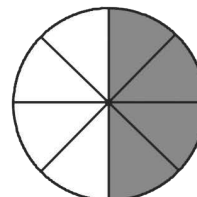
a)



.....

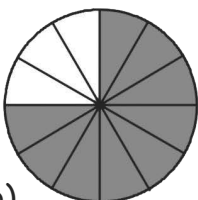


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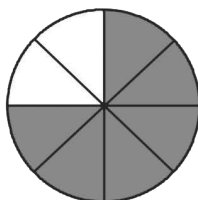


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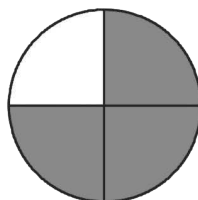
b)



.....



.....



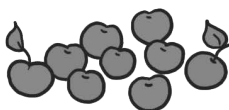
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2. How many would you have if you found the following:

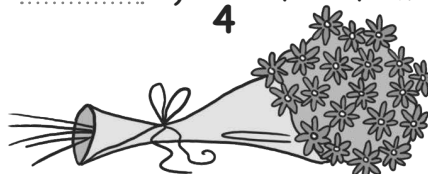
a) $\frac{1}{2}$ of 10 sweets?



b) $\frac{1}{3}$ of 9 apples?


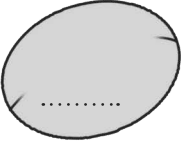
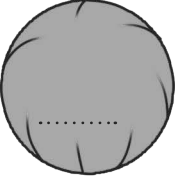




c) $\frac{1}{4}$ of 20 flowers?



Multiplying by 11 and 9

▼ Warm up Multiply by 10.

a) 7  b) 24  c) 421  d) 690  e) 399 

▼ Learn about

Believe it or not, **multiplying** any number by 11 is easy!
Look . . .

First you multiply 27 by 10, and then you add one more 27.

$$\begin{aligned} 27 \times 11 &= (27 \times 10) + 27 \\ &= 270 + 27 \\ &= 297 \end{aligned}$$

▼ Now try these

Fill in the gaps with the correct information.

$$\begin{aligned} \text{a) } 32 \times 11 &= (\dots \times 10) + \dots \\ &= 320 + 32 \\ &= \dots \end{aligned}$$

$$\begin{aligned} \text{b) } 18 \times 11 &= (18 \times \dots) + 18 \\ &= \dots + 18 \\ &= \dots \end{aligned}$$

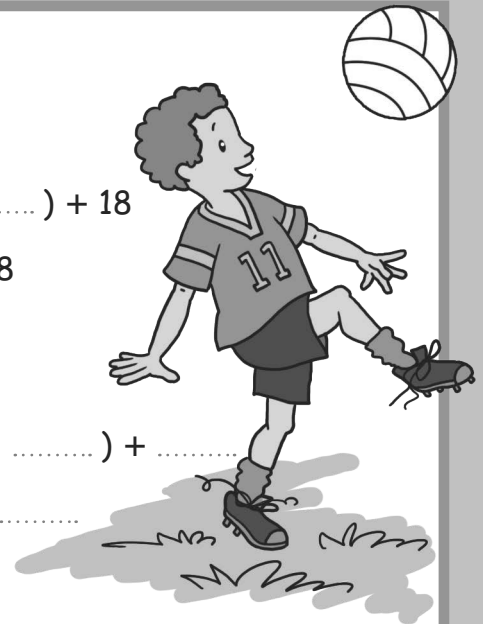
$$\begin{aligned} \text{c) } 61 \times 11 &= (\dots \times 10) + \dots \\ &= \dots + 61 \\ &= \dots \end{aligned}$$

$$\begin{aligned} \text{d) } 25 \times 11 &= (\dots \times \dots) + \dots \\ &= \dots + \dots \\ &= \dots \end{aligned}$$

Now do these on your own!

$$\text{e) } 17 \times 11 = \dots$$

$$\text{f) } 52 \times 11 = \dots$$



Answers

WU = Warm Up

LA = Learn About

NTT = Now Try These

Numbers to 20

WU

- a) 11 b) 19 c) 14 d) 17
e) 14 f) 18 g) 17 h) 19

LA

- a) 8 b) 16 c) 3 d) 7
e) 15 f) 2

NTT

1.
a) 7, 13 b) 6, 14 c) 9, 11 d) 8, 12
2. £20
3. 20 balloons

Counting in steps

WU

- a) 67, 68, 69, 70, 71, 72
b) 342, 343, 344, 345, 346, 347
c) 1789, 1790, 1791, 1792, 1793, 1794

LA

- a) Rule = -2
b) Rule = +3
c) Rule = +4
d) Rule = -4

NTT

- a) 73, 78, 88 Rule = +5
b) 108, 96, 90 Rule = -6
c) 88, 77, 44 Rule = -11
d) 339, 351, 359 Rule = +4

Fractions

WU

- a) $\frac{1}{4}$
b) $\frac{2}{8}$
c) $\frac{3}{12}$

NTT

1.
a) $\frac{1}{2}$, $\frac{2}{4}$, $\frac{4}{8}$
b) $\frac{9}{12}$, $\frac{6}{8}$, $\frac{3}{4}$
2.
a) 5 sweets
b) 3 apples
c) 5 flowers

Multiplying by 11 and 9

WU

- a) 70 b) 240 c) 4210
d) 6900 e) 3990

NTT

- a) $32 \times 11 = (32 \times 10) + 32$
 $= 320 + 32$
 $= 352$
b) $18 \times 11 = (18 \times 10) + 18$
 $= 180 + 18$
 $= 198$
c) $61 \times 11 = (61 \times 10) + 61$
 $= 610 + 61$
 $= 671$
d) $25 \times 11 = (25 \times 10) + 25$
 $= 250 + 25$
 $= 275$
e) $17 \times 11 = (17 \times 10) + 17$
 $= 170 + 17$
 $= 187$
f) $52 \times 11 = (52 \times 10) + 52$
 $= 520 + 52$
 $= 572$