

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) $17 + \dots\dots = 20$

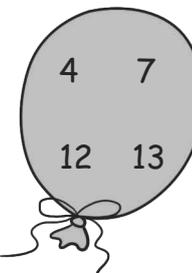
d) $\dots\dots + 13 = 20$

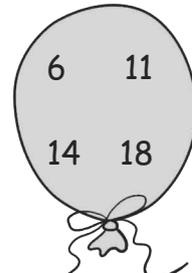
e) $\dots\dots + 5 = 20$

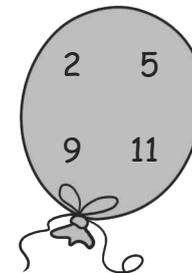
f) $\dots\dots + 18 = 20$

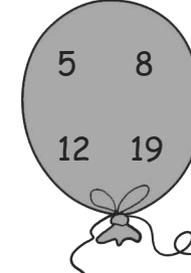
Now try these

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

a) 

b) 

c) 

d) 

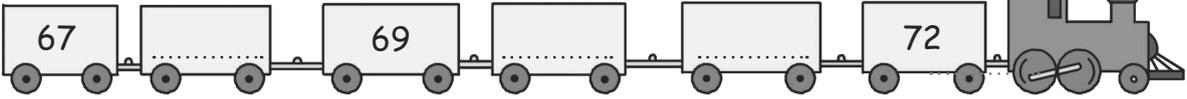
2. Jake had saved £9 and for his birthday he was given £11. How much money did Jake now have? £

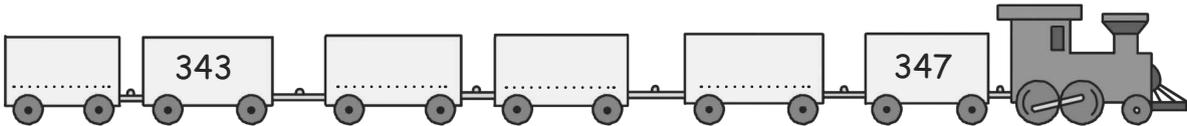
3. Balloons were tied all around the house to celebrate Jake's birthday. There were 7 outside, 6 in the living room and 7 in the kitchen. How many balloons were there altogether?

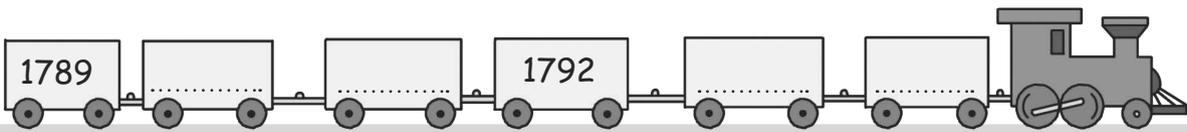
Counting in steps

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

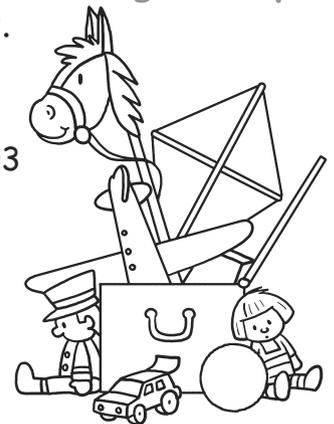
rule =

c) 122 126 130 134 138

rule =

d) 40 36 32 28 24

rule =



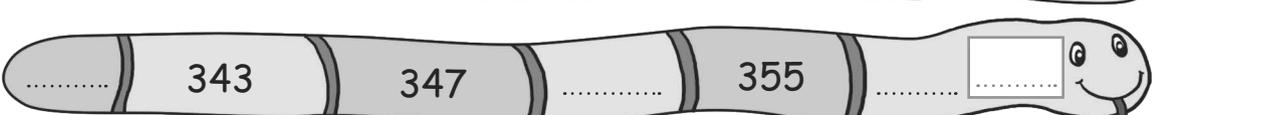
Now try these

Fill in the missing numbers. Remember to find the rule first!

a) 

b) 

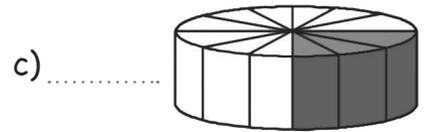
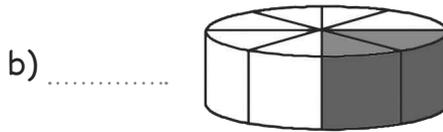
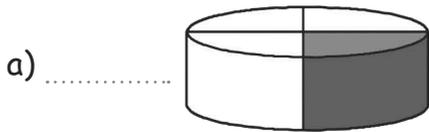
c) 

d) 

Fractions

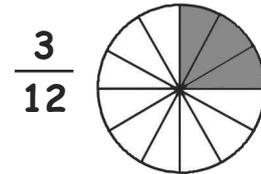
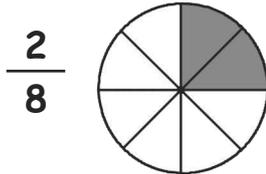
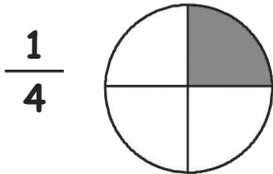
Warm up

Write a different fraction for each pie.



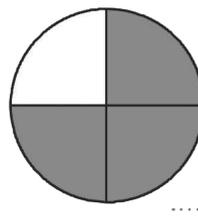
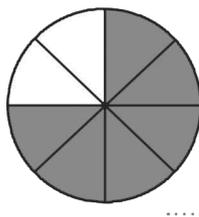
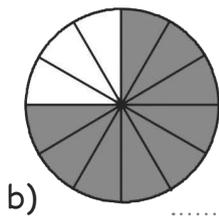
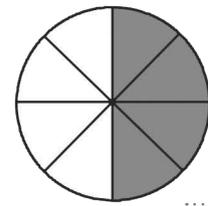
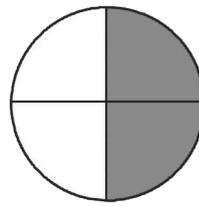
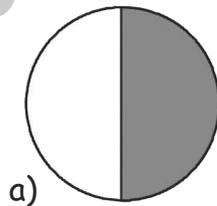
Learn about

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



Now try these

1. Write each of these equivalent fractions.

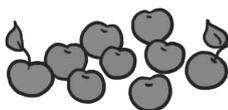


2. How many would you have if you found the following:

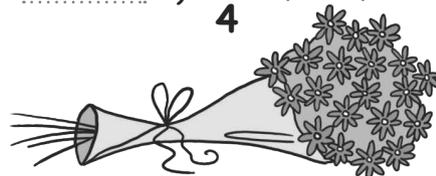
a) $\frac{1}{2}$ of 10 sweets?



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

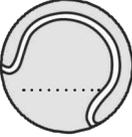
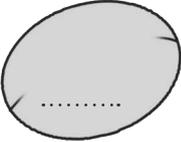
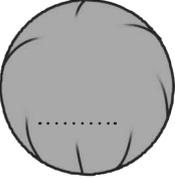
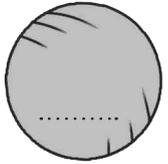


c) $\frac{1}{4}$ of 20 flowers?



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

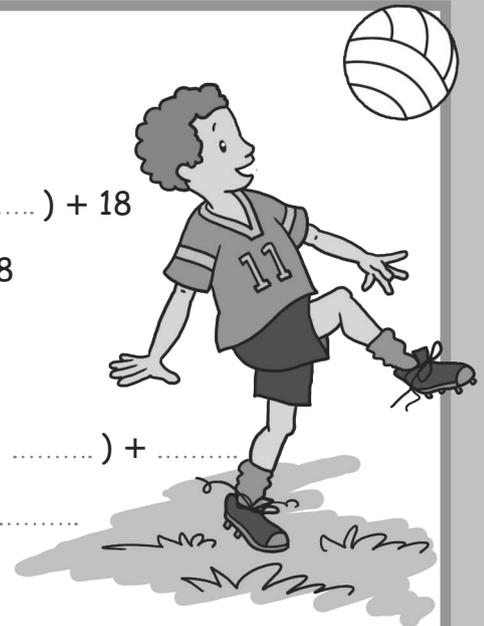
Fill in the gaps with the correct information.

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

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

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

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



Now do these on your own!

e) $17 \times 11 = \dots$

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) 17

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) $52 \times 11 = (52 \times 10) + 52$
 $= 520 + 52$
 $= 572$