20.01.21

IALT: divide 3 digit numbers by 1 digit with remainders.

8 X 3 =

8 x 7 =

__ x 8 = 8

___ x 8 = 24

___ x 8 = 16

___ x 8 = 40

32 ÷ 8 =

48 ÷ 8 =

56 ÷ 8 =

88 ÷ 8 =

0 ÷ 8 =

Challenge:

There are 63 pencils.
I share them with 7 children- how many pencils do they get each?

https://www.topmarks.co.uk/maths-games/daily10

20.01.21

IALT: divide 3 digit numbers by 1 digit with remainders.

8 X 3 =	24
8 x 7 =	56
__ x 8 = 8	1
___ x 8 = 24	3
___ x 8 = 16	2
___ x 8 = 40	5
32 ÷ 8 =	4
48 ÷ 8 =	6
56 ÷ 8 =	7
88 ÷ 8 =	11
0 ÷ 8 =	0

Challenge:

There are 63 pencils.
I share them with 7 children- how many pencils do they get each?

9

https://www.topmarks.co.uk/maths-games/daily10

Daily Counting

8

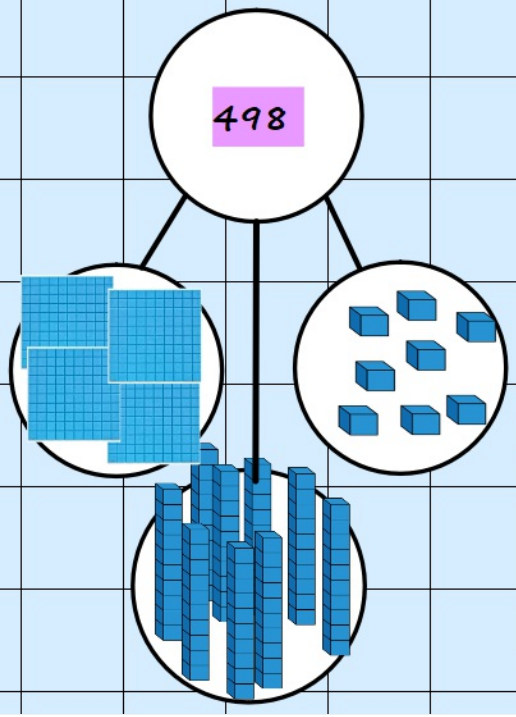
6

7

$498 \div 4 =$

Sometimes we have to divide numbers that are tricky and will have reminders...

Lets start by partitioning the number to help us.



Does 4 go into 400? Yes, 100 times.

Does 4 go into 90? No

Does 4 go into 8? Yes

What is the next 10 before 90? 80

Does 4 go into 80? Yes, 20 times.

Does 4 go into 18? Yes, with 2 left over...

$400 \div 4 = 100$

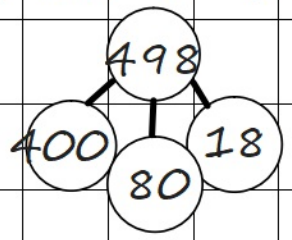
$80 \div 4 = 20$

$18 \div 4 = 4r2$

To use our formal method we would lay out the question like this...

1. NUMBER SENTENCE

498 ÷ 4 =



2. Show me how you partitioned

÷	400	80	18
4	100	20	4r2

3. Grid method

100 + 20 + 4r2 = 124r2

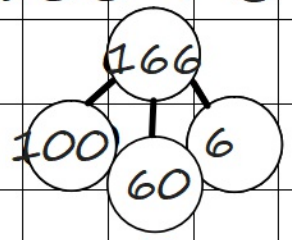
4. Add answer

PARTITION
DIVIDE
ADD

When you are doing your questions, layout your work like this:

1. NUMBER SENTENCE

$166 \div 5 =$



3. Grid method

÷	100	60	6
5	20	12	1r1

4. Add answer

$20 + 12 + 1r1 = 33r1$

2. Show me how you partitioned

PARTITION
DIVIDE
ADD

TASK: divide these 3-digit numbers

Mild:

1. 429 ÷ 3 =
2. 560 ÷ 4 =
3. 615 ÷ 5 =
4. 764 ÷ 4 =
5. 288 ÷ 3 =
6. 670 ÷ 5 =
7. 488 ÷ 2 =
8. 920 ÷ 4 =
9. 363 ÷ 3 =
10. 510 ÷ 5 =

Spicy:

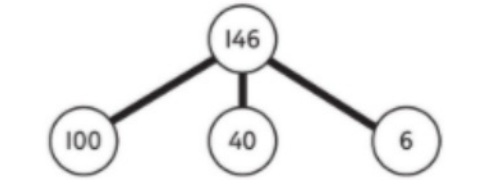
11. 504 ÷ 4 =
12. 642 ÷ 6 =
13. 752 ÷ 8 =
14. 558 ÷ 6 =
15. 728 ÷ 8 =
16. 592 ÷ 4 =
17. 684 ÷ 2 =
18. 328 ÷ 4 =
19. 648 ÷ 8 =
20. 684 ÷ 6 =

HHH:

21. 954 ÷ 9 =
22. 637 ÷ 7 =
23. 678 ÷ 6 =
24. 665 ÷ 7 =
25. 945 ÷ 9 =
26. 864 ÷ 8 =
27. 574 ÷ 7 =
28. 708 ÷ 6 =
29. 936 ÷ 9 =
30. 623 ÷ 7 =

Mild:

1 Find the answer to 146 ÷ 2.

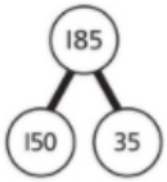


100 ÷ 2 = ☐ 40 ÷ 2 = ☐ 6 ÷ 2 = ☐

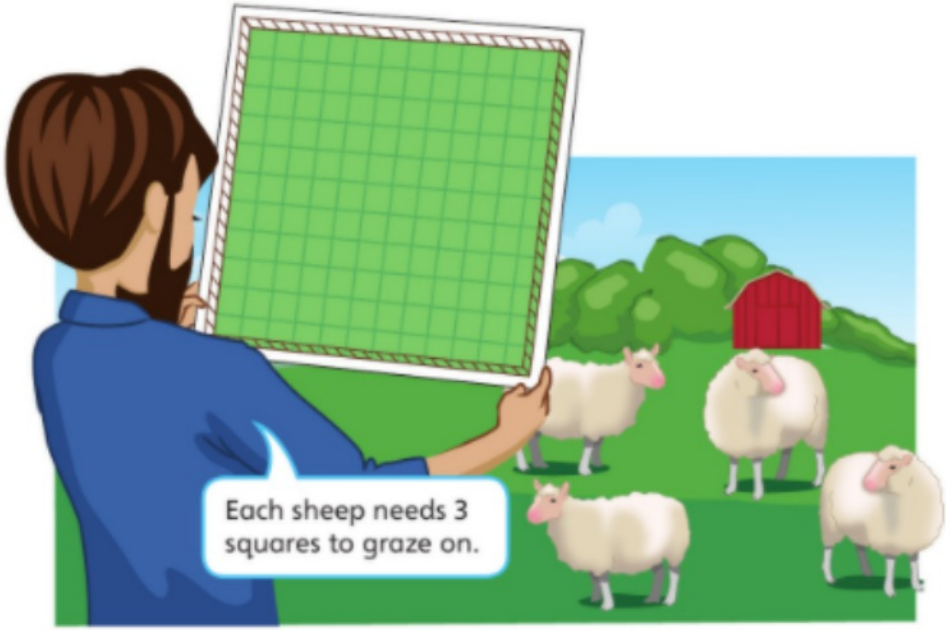
☐ + ☐ + ☐ = ☐

146 ÷ 2 = ☐

2 Use the part-whole model to find the answer to 185 ÷ 5.



Spicy:



1 **a)** How many sheep can graze in the farmer's field?

b) A cow needs 4 squares to graze on.

How many cows can graze in the field?

ANSWERS:

Mild:

1. 143
2. 140
3. 123
4. 191
5. 96
6. 134
7. 244
8. 230
9. 121
10. 102

Spicy:

11. 126
12. 107
13. 94
14. 93
15. 91
16. 148
17. 342
18. 82
19. 81
20. 114

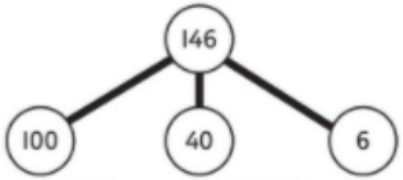
HHH:

21. 106
22. 91
23. 113
24. 95
25. 105
26. 108
27. 82
28. 118
29. 104
30. 89

Answers:

Mild:

1 Find the answer to 146 ÷ 2.

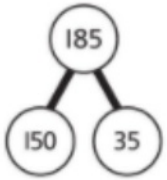


100 ÷ 2 = 50 40 ÷ 2 = 20 6 ÷ 2 = 3

50+20+3 = 73

146 ÷ 2 = 73

2 Use the part-whole model to find the answer to 185 ÷ 5.



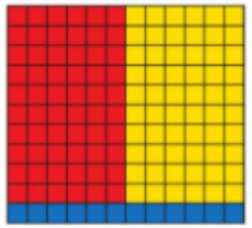
=37

Spicy:

Share

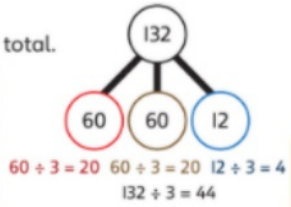
a) 11 × 12 = 132

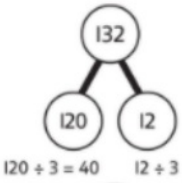
There are 132 squares in total.

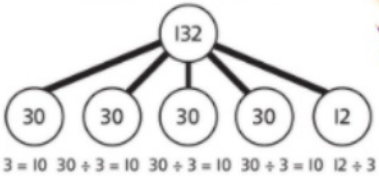


20 + 20 + 4 = 44

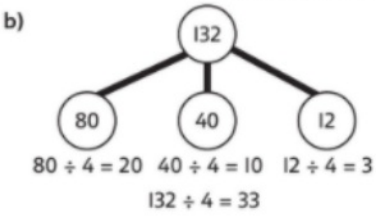
44 sheep can graze in the farmer's field.







b)



33 cows can graze in the field.