

Yr 4 Multiplication and Division Unit 1 (4327)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Doubles and Halves Sheet 1

Working towards ARE

Day 1 Doubles and Halves Sheet 2

Working at ARE

Day 1 Doubles and Halves Sheet 3

Greater Depth

Day 2 Doubling and halving 3-digit numbers Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE start at Section A.

Working at ARE do Section B and then do as many of Section C as they can.

Greater Depth do every other question of Sections A and B, then work through Section C.

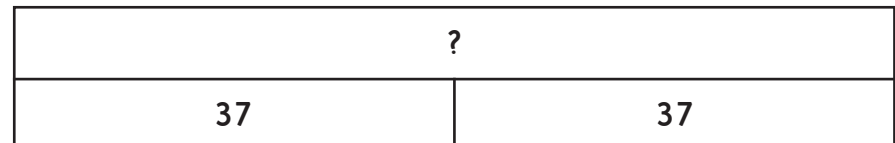
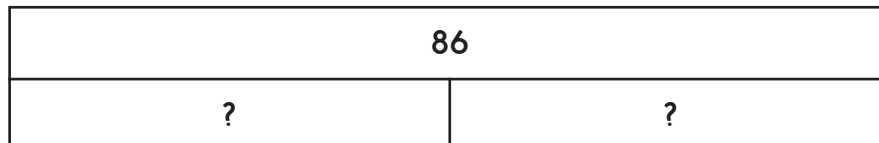
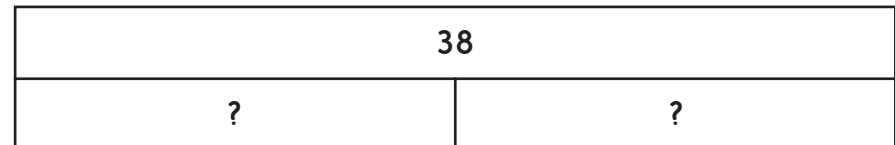
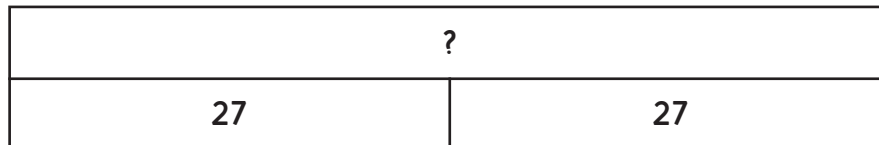
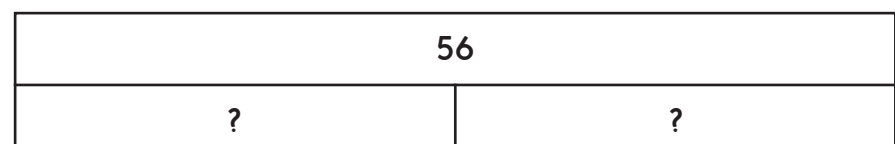
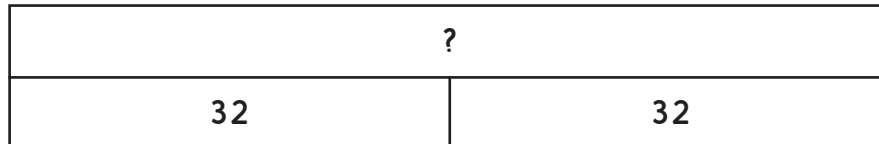
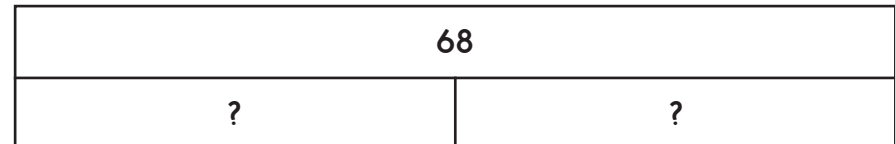
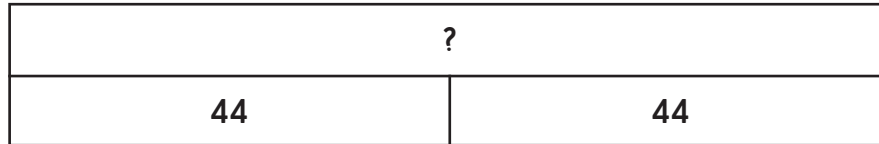
Doubles and halves

Sheet 1

Look at each bar model picture.

Write the double. Write the halving fact,

e.g. Double 44 = ____ Half of ____ = 44



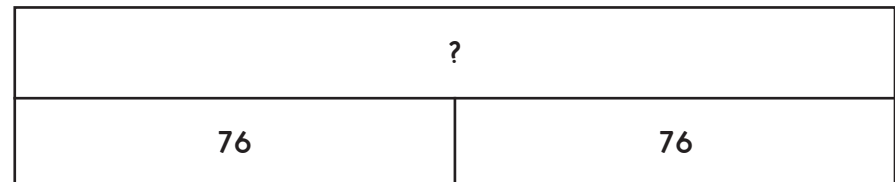
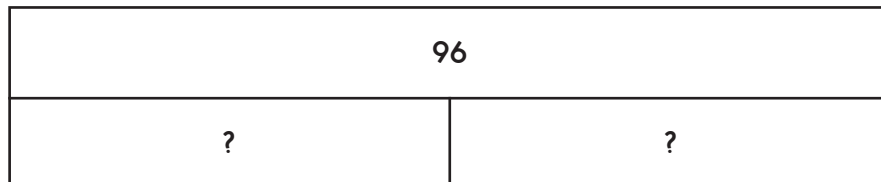
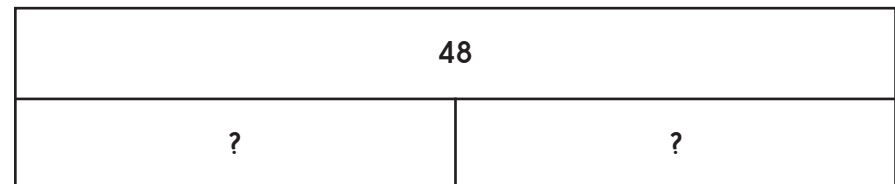
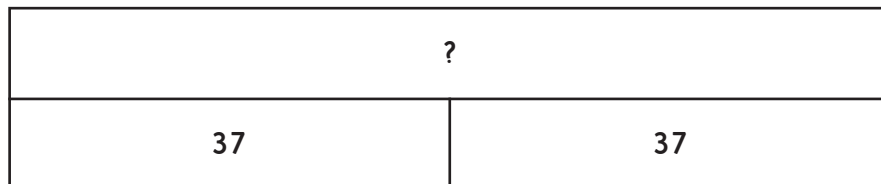
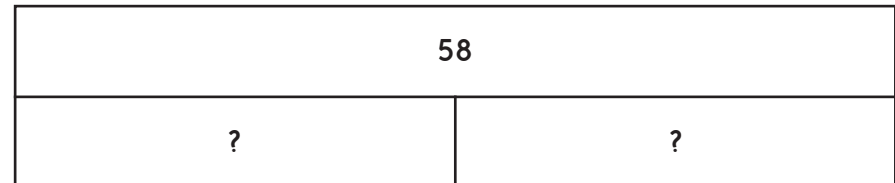
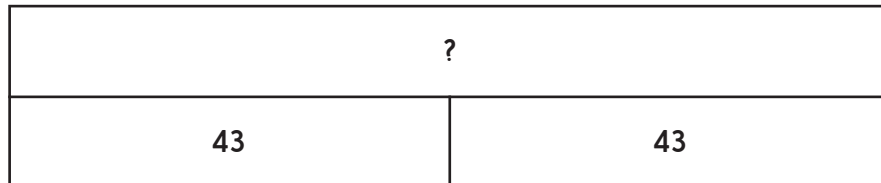
Challenge

Write an odd number between 50 and 100. Find half of it. Check by doubling it that you are correct. Repeat.

Doubles and halves

Sheet 2

Look at each bar model picture.
Write the double. Write the halving fact.
e.g. Double 43 = ____ Half of ____ = 43



Challenge

Write a 2-digit number, e.g. 62. Double it. Write its reverse, e.g. 26 and double it. Add the digits of each answer. Repeat. What do you notice?

Doubles and halves

Sheet 3

Look at each bar model picture.
Write the double. Write the halving fact.

e.g. Double 27 = ____ Half of ____ = 27

?	
27	27

59	
?	?

?	
39	39

93	
?	?

?	
78	78

75	
?	?

?	
67	67

106	
?	?

?	
99	99

99	
?	?

Challenge

Write a 2-digit number, e.g. 62. Double it. Write its reverse, e.g. 26 and double it. Add the digits of each answer. Repeat. What do you notice?

Doubling and halving 3-digit numbers

Sheet 1

A
Double:

122
242
353

Halve:

464
862
666

B
Double:

263
374
445
438

Halve:

344
452
463
674

C
Double:

366
378
455
568
718
856

Halve:

853
627
975
793
579
953

Challenge

Start at 1024 and create a halving chain. $1024 \rightarrow 512 \rightarrow \underline{\quad}$, etc. What number is at the end? (The end is the final number before you get less than 1.) Predict what number will be at the end if you start at 768. Try it to see if you were correct.

Multiplication and Division

Answers

Day 1 Doubles and halves Sheet 1

$Double\ 44 = 88$

$Half\ of\ 88 = 44$

$Double\ 32 = 64$

$Half\ of\ 64 = 32$

$Double\ 27 = 54$

$Half\ of\ 54 = 27$

$Double\ 43 = 86$

$Half\ of\ 86 = 43$

$Double\ 34 = 68$

$Half\ of\ 68 = 34$

$Double\ 28 = 56$

$Half\ of\ 56 = 28$

$Double\ 19 = 38$

$Half\ of\ 38 = 19$

$Double\ 37 = 74$

$Half\ of\ 74 = 37$

Day 1 Doubles and halves Sheet 2

$Double\ 43 = 86$

$Half\ of\ 86 = 43$

$Double\ 37 = 74$

$Half\ of\ 74 = 37$

$Double\ 48 = 96$

$Half\ of\ 96 = 48$

$Double\ 29 = 58$

$Half\ of\ 58 = 29$

$Double\ 24 = 48$

$Half\ of\ 48 = 24$

$Double\ 76 = 152$

$Half\ of\ 152 = 76$

Challenge

The digits of each answer add up to the same number, e.g. double 62 is 124 ($1+2+4=7$) and double 26 is 52 ($5+2=7$); double 84 is 168 ($1+6+8=15$) and double 48 is 96 ($9+6=15$).

Day 1 Doubles and halves Sheet 3

$Double\ 27 = 54$

$Half\ of\ 54 = 27$

$Double\ 39 = 78$

$Half\ of\ 78 = 39$

$Double\ 78 = 156$

$Half\ of\ 156 = 78$

$Double\ 67 = 134$

$Half\ of\ 134 = 67$

$Double\ 99 = 198$

$Half\ of\ 198 = 99$

$Double\ 29.5 = 59$

$Half\ of\ 59 = 29.5$

$Double\ 46.5 = 93$

$Half\ of\ 93 = 46.5$

$Double\ 37.5 = 75$

$Half\ of\ 75 = 37.5$

$Double\ 53 = 106$

$Half\ of\ 106 = 53$

$Double\ 49.5 = 99$

$Half\ of\ 99 = 49.5$

Challenge

The digits of each answer add up to the same number, e.g. double 62 is 124 ($1+2+4=7$) and double 26 is 52 ($5+2=7$); double 84 is 168 ($1+6+8=15$) and double 48 is 96 ($9+6=15$).

Day 2 Doubling and halving 3-digit numbers Sheet 1

Doubles

A

$122 = 244$

$242 = 484$

$353 = 706$

B

$263 = 526$

$374 = 748$

$445 = 890$

$438 = 876$

C

$366 = 732$

$455 = 910$

$568 = 1136$

$718 = 1436$

$856 = 1712$

Halves

$464 = 232$

$862 = 431$

$666 = 333$

$344 = 172$

$452 = 226$

$463 = 231.5$

$674 = 337$

$853 = 426.5$

$627 = 313.5$

$975 = 487.5$

$579 = 289.5$

$953 = 476.5$

Challenge

1024 - 512 - 256 - 128 - 64 - 32 - 16 - 8 - 4 - 2 - 1.