

RECALL

11

781

11

924

11

1089

25

2575

25

4300

25

249975

Long Division 4

Diving

Use your knowledge of multiples to help you solve these division questions:

$$2564 \div 22 = \mathbf{116r12}$$

		0	1	1	6	r12
2	2	2	5	6	4	
	-	2	2			
			3	6		
	-		2	2		
			1	4	4	
			1	3	2	
				1	2	

$$1178 \div 21 = \mathbf{56r2}$$

		0	0	5	6	r2
2	1	1	1	7	8	
	-	1	0	5		
			1	2	8	
	-		1	2	6	
					2	

L.O. DIVIDE NUMBERS UP TO 4 DIGITS BY A 2-DIGIT NUMBER
USING THE FORMAL WRITTEN METHOD OF SHORT DIVISION,
INTERPRETING REMAINDERS ACCORDING TO THE CONTEXT.

- **SOME WILL EVEN:** Explain my method.
- **SOME WILL:** Check answer using short/long division.
- **MOST WILL:** Use known multiplication facts to aid calculation.
- **ALL WILL:** Use diagrams to help divide.

Intelligent Practise



1. $3509 \div 11 =$

2. $4173 \div 13 =$

3. $6734 \div 14 =$

4. $7956 \div 12 =$

5. $8070 \div 15 =$

6. $6576 \div 16 =$

7. $8359 \div 13 =$

8. $7161 \div 11 =$

9. $5808 \div 12 =$

10. $7882 \div 14 =$



11. $7242 \div 17 =$

12. $8712 \div 18 =$

13. $7201 \div 19 =$

14. $7531 \div 17 =$

15. $5652 \div 18 =$

16. $2525 \div 25 =$

17. $7155 \div 27 =$

18. $3570 \div 21 =$

19. $3828 \div 29 =$

20. $6344 \div 26 =$



21. $4160 \div 32 =$

22. $3885 \div 35 =$

23. $6194 \div 38 =$

24. $4690 \div 35 =$

25. $6532 \div 46 =$

26. $2592 \div 48 =$

27. $4814 \div 58 =$

28. $4690 \div 67 =$

29. $6552 \div 72 =$

30. $7224 \div 84 =$

question	answer
1	319
2	321
3	481
4	663
5	538
6	411
7	643
8	651
9	484
10	563

11	426
12	484
13	379
14	443
15	314
16	101
17	265
18	170
19	132
20	244

21	130
22	111
23	163
24	134
25	142
26	54
27	83
28	70
29	91
30	86

Long Division 4

Diving

Solve these division word problems.

A train is able to fit 65 passengers into each carriage. How many carriages will the train need in order to carry 1428 passengers?

The train will need to have 22 carriages.

21 carriages will be full and the last will have 63 passengers.



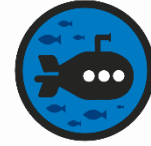
		0	0	2	1	r63
6	5	1	4	2	8	
	-	1	3	0		
			1	2	8	
	-			6	5	
				6	3	

A factory can pack 38 jars into a box. There are 3498 jars to pack. How many boxes can they fill with jars? How many will be left over?

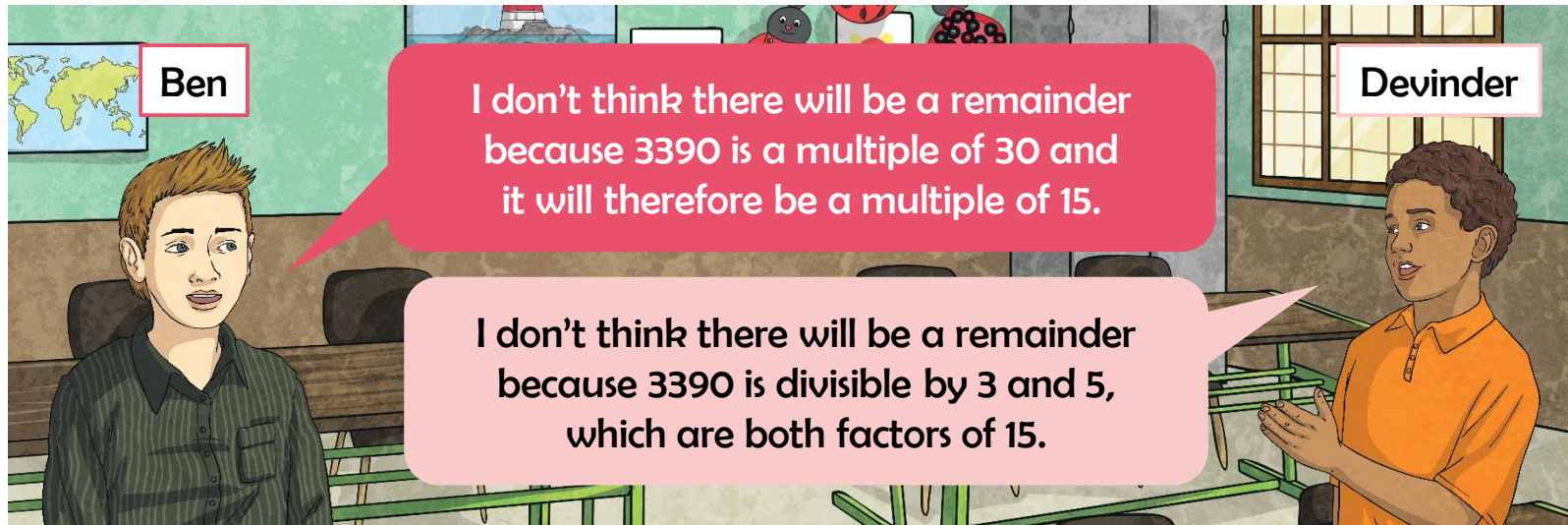
92 boxes will be filled with 2 jars left over.



		0	0	9	2	r2
3	8	3	4	9	8	
	-	3	4	2		
				7	8	
	-			7	6	
					2	



Two children have been asked to solve this problem: $3390 \div 15$



Ben

I don't think there will be a remainder because 3390 is a multiple of 30 and it will therefore be a multiple of 15.

Devinder

I don't think there will be a remainder because 3390 is divisible by 3 and 5, which are both factors of 15.

Both boys are correct. Ben is correct because 3390 will divide by 30 and not leave a remainder. As 15 is a factor of 30, 3390 will not leave a remainder when divided by 15. Devinder is correct because 3390 is divisible by 3 and 5, and because they are prime factors of 15, 3390 will not leave a remainder when divided by 15.