

Order of operations puzzle

5	×		-		13
+		+		×	
6	×		-	4	56
÷		÷		÷	
3	×	2	÷		
		8		4	

Answers

5	×	3	-	2	13
+		+		×	
6	×	10	-	4	56
÷		÷		÷	
3	×	2	÷	2	3
7		8		4	

Short division

Divide any remainders to give fractions.

1. $7133 \div 3$
2. $1946 \div 6$
3. $3183 \div 4$
4. $9326 \div 7$
5. $2442 \div 11$
6. $4752 \div 11$
7. $3784 \div 12$
8. $9524 \div 12$
9. There are 12 months in a year, 365 days. If each month was an equal number of days, exactly how many days would there be in a month?
How long would each month be in a leap year of 366 days?
10. How many packs of 5 chocolate bars can be made using 1453 bars?
11. How many packs of 12 eggs need to be bought if 253 eggs are needed?
12. If a piece of material measuring 962cm long is divided into 8 equal lengths to make curtains, how long is each length?

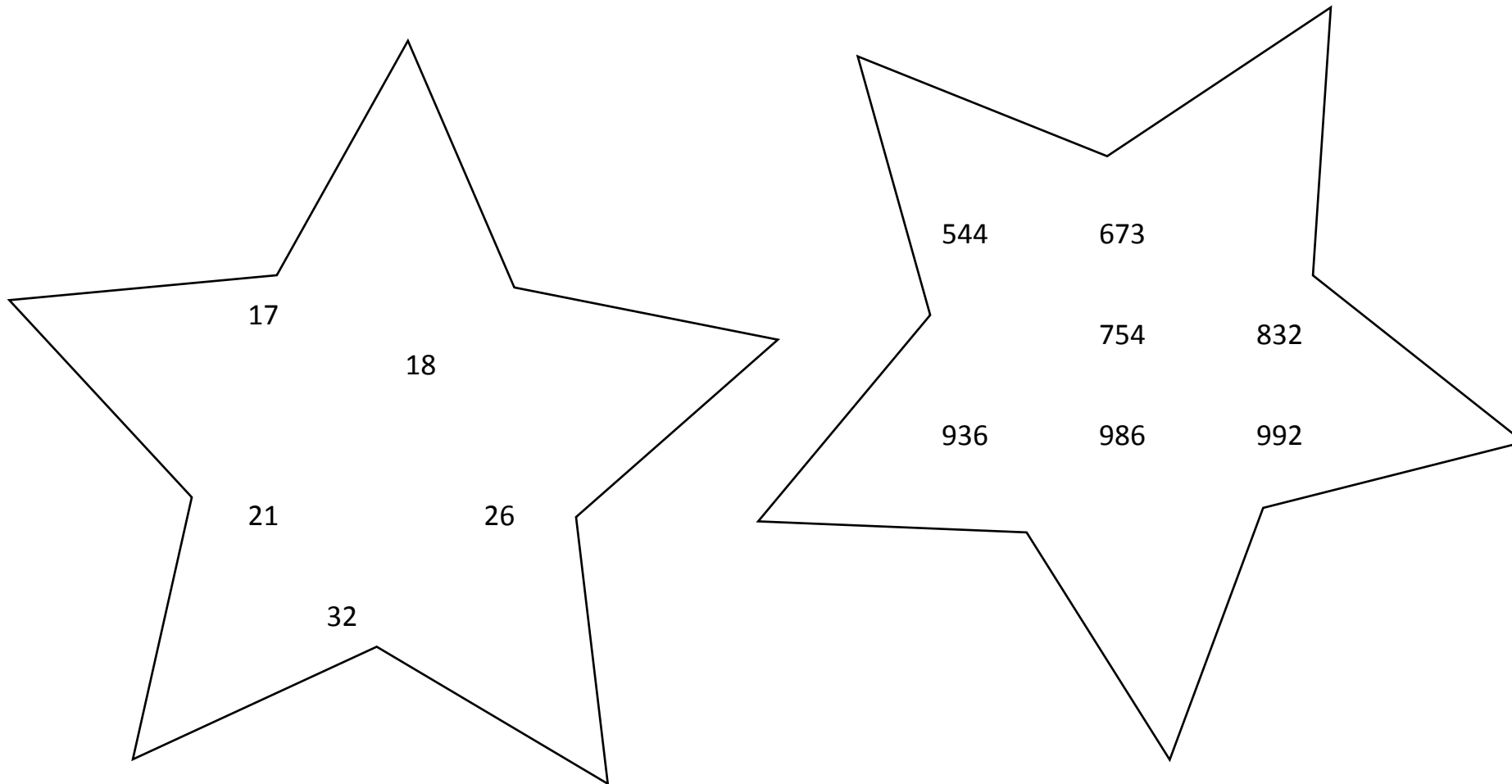
Short division

Divide any remainders to give fractions.

1. $733 \div 3$
2. $946 \div 6$
3. $4783 \div 4$
4. $6326 \div 4$
5. $3142 \div 4$
6. $3784 \div 5$
7. Exactly how many weeks are there in 365 days?
8. How many packs of 4 chocolate bars can be made using 535 bars?
9. How many packs of 6 eggs need to be bought if 253 eggs are needed?
10. If a piece of material measuring 562cm long is divided into 4 equal lengths to make curtains, how long is each length?

Long division

Look for pairs of numbers that when you divide one by the other, you will get an answer between 30 and 40, then between 50 and 60.



Long division

Write a list of multiples of 15 from 15 to 75 and use them to help work out these divisions.

1. $525 \div 15$ 2. $634 \div 15$ 3. $789 \div 15$

Write a list of multiples of 23 from 23 to 115 and use them to help work out these divisions.

4. $368 \div 23$ 5. $785 \div 23$ 6. $581 \div 23$

Write a list of multiples of 32 from 32 to 160 and use them to help work out these divisions.

7. $487 \div 32$ 8. $711 \div 32$ 9. $995 \div 32$

Maths Answers - Spring Year 6

Week 11:

Short division (H)

1. $7133 \div 3 = 2377 \frac{2}{3}$
2. $1946 \div 6 = 324 \frac{1}{3}$
3. $3183 \div 4 = 795 \frac{3}{4}$
4. $9326 \div 7 = 1332 \frac{2}{7}$
5. $2442 \div 11 = 222$
6. $4752 \div 11 = 432$
7. $3784 \div 12 = 315 \frac{4}{12}$ ($315 \frac{1}{3}$)
8. $9524 \div 12 = 793 \frac{8}{12}$ ($793 \frac{2}{3}$)
9. $365 \div 12 = 30 \frac{5}{12}$ $366 \div 12 = 30 \frac{6}{12}$ ($30 \frac{1}{2}$)
10. $1453 \div 5 = 290 \frac{3}{5}$ packs
11. $253 \div 12 = 21 \frac{1}{12}$ packs 22 packs need to be bought
12. $962 \div 8 = 120 \frac{2}{8}$ cm ($120 \frac{1}{4}$ cm)

Short division (E)

1. $733 \div 3 = 244 \frac{1}{3}$
2. $946 \div 6 = 157 \frac{2}{3}$
3. $4783 \div 4 = 1195 \frac{3}{4}$
4. $6326 \div 4 = 1581 \frac{1}{2}$
5. $3142 \div 4 = 785 \frac{1}{2}$
6. $3784 \div 5 = 756 \frac{4}{5}$
7. $365 \div 7 = 52 \frac{1}{7}$
8. $535 \div 4 = 133 \frac{3}{4}$
9. $253 \div 6 = 42 \frac{1}{6}$ 43 packs of eggs must be bought
10. $562 \div 4 = 140 \frac{1}{2}$ cm

Long division

- | | |
|---|---|
| $544 \div 17 = 32$ | $544 \div 18 = 30 \frac{4}{18}$ ($30 \frac{2}{9}$) |
| $673 \div 17 = 39 \frac{10}{17}$ | $673 \div 18 = 37 \frac{7}{18}$ |
| $673 \div 21 = 32 \frac{1}{21}$ | $754 \div 21 = 35 \frac{19}{21}$ |
| $832 \div 21 = 39 \frac{13}{21}$ | $832 \div 26 = 32$ |
| $936 \div 26 = 36$ | $986 \div 26 = 37 \frac{24}{26}$ ($37 \frac{12}{13}$) |
| $986 \div 32 = 30 \frac{26}{32}$ ($30 \frac{13}{16}$) | $992 \div 26 = 38 \frac{4}{26}$ ($38 \frac{2}{13}$) |
| $992 \div 32 = 31$ | |
|
 | |
| $936 \div 17 = 55 \frac{1}{17}$ | $936 \div 18 = 52$ |
| $986 \div 17 = 58$ | $986 \div 18 = 54 \frac{14}{18}$ ($54 \frac{7}{9}$) |
| $992 \div 17 = 58 \frac{6}{17}$ | $992 \div 18 = 55 \frac{2}{18}$ ($55 \frac{1}{9}$) |

Long division

- $1 \times 15 = 15$
 $2 \times 15 = 30$
 $3 \times 15 = 45$
 $4 \times 15 = 60$
 $5 \times 15 = 75$

1. $525 \div 15 = 35$

2. $634 \div 15 = 42 \frac{4}{15}$

3. $789 \div 15 = 52 \frac{9}{15} (52 \frac{3}{5})$

$1 \times 23 = 23$

$2 \times 23 = 46$

$3 \times 23 = 69$

$4 \times 23 = 92$

$5 \times 23 = 115$

4. $368 \div 23 = 16$

5. $785 \div 23 = 34 \frac{3}{23}$

6. $581 \div 23 = 25 \frac{6}{23}$

$1 \times 32 = 32$

$2 \times 32 = 64$

$3 \times 32 = 96$

$4 \times 32 = 128$

$5 \times 32 = 160$

7. $487 \div 32 = 15 \frac{7}{32}$

8. $711 \div 32 = 22 \frac{7}{32}$

9. $995 \div 32 = 31 \frac{3}{32}$