Starburst

Word Problems

Use a formal method to calculate the answers to these problems.

1. A farmer has 624 eggs. He stores them in boxes of 12. How many boxes will he fill?

2. A school buys 1122 pencils in total. The school has 11 classes. How many pencils will each class receive?

3. A pupil has collected 780 stamps. He has 15 pages in his stamp book. How many stamps will be on each page?

4. A man ran 22 miles in 308 minutes. On average, how long does it take him to run a mile?

5. A toy factory produces 4536 toys a day. There are 21 machines making the toys. How many toys does each machine produce?



Mars

Word Problems

Use a formal method to calculate the answers to these problems.

1. A farmer has 2544 eggs. He needs to store them in boxes of 24. How many boxes will he fill?

2. A school buys 3782 pencils for its pupils. There are 31 classes. How many pencils will each class receive?

3. A man ran 98 miles in 1764 minutes. On average, how long does it take him to run a mile?

4. A toy factory produces 1984 toys a day. There are 31 machines making the toys. How many toys does each machine produce?

5. There are 1710 pupils in 45 classes in Smithdown Primary School. On average, how many pupils are in each class.



6. A lorry contains 8316 sweets. A bag of sweets contains 42 sweets. How many bags of sweets are there?

7. A local football club's full attendance equals 6368 people. If there are 32 rows of seats in the stadium, how many people sit in each row?

8. A local charity has raised £7850. They want to share this money between 25 good causes. How much will each of the good causes receive?

9. A cinema, when full, holds 6572 people. If 53 people can sit in each row, how many rows are there?

10. After selling all of his grapefruits, a greengrocer's takings are £89.10. Each grapefruit costs 54p. How many grapefruits did he sell?

Starmix

Word Problems

Use a formal method to calculate the answers to these problems.

1. A farmer has 5616 eggs. He needs to store them in boxes which can hold 36 eggs. How many boxes will he fill?

2. A school buys 8960 pencils for its pupils over 35 days. How many pencils did they buy each day?

3. A greengrocer has £85.68 after selling all of his coconuts. Each coconut costs 84p. How many coconuts did he sell?

4. A man drove 9240 miles in 7 days. On average how many miles was he covering in an hour?

5. A toy factory produces 9548 toys a week. There are 62 machines making the toys. How many toys does each machine produce a day?



Milky Way

Long Division with No Remainders

Above each question, write the **first five multiples of the divisor** and the **divisor multiplied by 10**.

11	22	33	44	55	110	
Example						
			3	1	9	
1	1	3	5	0	9	
	–	3	3	0	0	(11 × 300)
			2	0	9	
		–	1	1	0	(11 × 10)
				9	9	
			–	9	9	(11 × 9)
					0	

1) 4173 ÷ 13

2) 6734 ÷ 14

3) 8070 ÷ 15

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Flying Saucers

Long Division with Remainders

Above each division, write the **first five multiples of the divisor** and the **divisor multiplied by 10**. Then, complete the long divisions.

24 48 72 96 120 240

Example

			1	5	0	r2	1
2	4	3	6	2	1		
	–	2	4	0	0	(24 × 100)	
		1	2	2	1		
	–	1	2	0	0	(24 × 50)	
				2	1		

1) 9531 ÷ 31 =

2) 1415 ÷ 12 =

3) 4464 ÷ 19 =

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Galaxy

Long Division with Remainders

There are two different methods for long division.

method 1

642 ÷ 14						
			4	5	r1	2
1	4	6	4	2		
	–	5	6	0		
			8	2		
		–	7	0		
			1	2		

(14 × 40)

(14 × 5)

method 2

4631 ÷ 21							
			2	2	0	r1	1
2	1	4	6	3	1		
	–	4	2				
			4	3			
		–	4	2			
				1	1		

Use method 1 to complete these long divisions.

1) 1320 ÷ 23

2) 2892 ÷ 35

Use method 2 to complete these long divisions.

3) 4371 ÷ 41

4) 6541 ÷ 32

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