Ye	_	r	6
16	u		n

Use negative numbers in context and calculate intervals across zero

The temperature at 12 midday is  $16^{\circ}$ C. By 11pm the temperature drops to  $-31^{\circ}$ C. By how much does the temperature fall?

-47°C

Billy and Jo have £564.32 in their bank account. They pay for a holiday which includes:

- Aeroplane tickets at £243.21
- · Hotel accommodation at £428.17
- · What will their account balance be after paying for the holiday?

-£107.06

Put these temperatures in order from coolest to warmest: 1°C, -3°C, -8°C, -31°C, 12°C, -11°C, 35°C, 0°C

–31°C

–11°C

–8°C

−3°C

0°C

1°C

12°C

35°C

Compare and order numbers up to 10,000,000

Order the numbers from smallest to largest.

99,054,703

687,211

99,871,642

73,988,453

8,785,614

8,784,614

687,211

8,784,614

8,785,614

73,988,453

99,054,703

99,871,642

· Identify common factors, common multiples and prime numbers

What are the common factors for 18 and 24? 1, 2, 3 and 6

What is the lowest common multiple for 8 and 12?

24



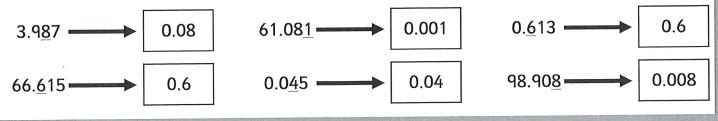


Highlight all the prime numbers									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Round any whole number to a required degree of accuracy

	Nearest ten	Nearest hundred	Nearest thousand	Nearest ten- thousand	Nearest hundred- thousand	Nearest million
9,875,411	9,875,410	9,875,400	9,875,000	9,880,000	9,900,000	10,000,000
30,105	30,110	30,100	30,000	30,000	0	0
47,032,565	47,032,570	47,032,600	47,033,000	47,030,000	47,000,000	47,000,000
4,423,423	4,423,420	4,423,400	4,423,000	4,420,000	4,400,000	4,000,000
239,300,010	239,300,010	239,300,000	239,300,000	239,300,000	239,300,000	239,000,000

• Identify the value of each digit to 3 decimal places Write the of the underlined digit of each number.



• Use knowledge of order of operations to carry out calculations involving four operations

Use the order of operations (BODMAS) to work out the following:

$$35 - 7 \times (6 + 8) = -63$$

$$(2+9) \times (10-5) = 55$$

$$42 - 7 \times (6 + 8) = -56$$

Multiply: 4-digit by 2-digit
Complete the column method multiplication questions

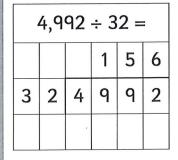
3,977 x 17 =								
	3	3 9 7 7						
х	6	5	1,	7				
2	7	8	3	9				
3 <sub>1</sub>	91	7,	7	0				
6	7	6	0	9				

					-		
8,103 x 64 =							
		8 1 0 3					
	х	20	1	6,	4		
	3	2	4	1	2		
4 <sub>1</sub>	8	6	1	8	0		
5	1	8	5	9	2		

2,674 x 93 =							
		2	6	7	4		
	6 <b>X</b>	6 2	3 2	91	3		
		8	0	2	2		
2	4	0	6	6	0		
2	4	8	6	8	2		

6,633 x 28 =								
		6 6 3 3						
	1 <b>X</b>	5	2	2	8			
	5	3	0	6	4			
1	3	2	6,	6	0			
1	8	5	7	2	4			

• Divide: 4-digit by 2-digit Complete the questions



5,304 ÷ 78 =						
				6	8	
7	8	5	3	0	4	

Add and subtract fractions with different denominators and mixed numbers

$$\frac{7}{8} + \frac{5}{6} = 1 \frac{34}{48}$$

$$\frac{4}{5} - \frac{3}{4} = \frac{1}{20}$$

$$1 \quad \frac{1}{3} \quad + \quad \frac{1}{2} \quad = \boxed{ 1 \quad \frac{5}{6} }$$

$$5 \quad \frac{1}{3} \quad - \quad \frac{2}{5} \quad = \quad 4 \quad \frac{14}{15}$$

## Year 6

Multiply simple pairs of proper fractions, writing the answer in the simplest form.

				answer	form
1	.,	4	_	4	1
4	Х	7	=	28	7
			J		

5		3	15	3
6	Х	8	48	16

				answer	form
3	х	1	=	3	1
4		3		12	4

$$\frac{2}{5} \times \frac{5}{9} = \boxed{\frac{10}{45}} \boxed{\frac{2}{9}}$$

• Divide proper fractions by whole numbers

$$\frac{5}{8} \div 4 = \boxed{\frac{5}{32}}$$

$$\frac{1}{2} \div 6 = \boxed{\frac{1}{12}}$$

$$\frac{7}{9} \div 3 = \boxed{\frac{7}{27}}$$

$$\frac{3}{4} \div 8 = \boxed{\frac{3}{32}}$$

• Calculate % of whole number