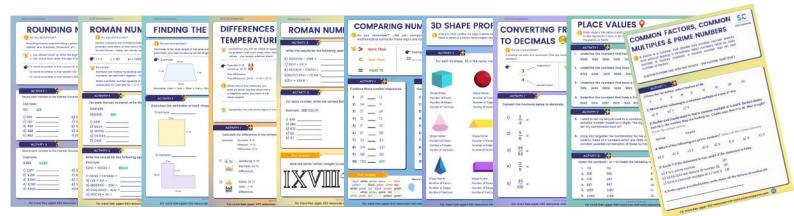


MATHSCATCH UP2021REVISION PACK

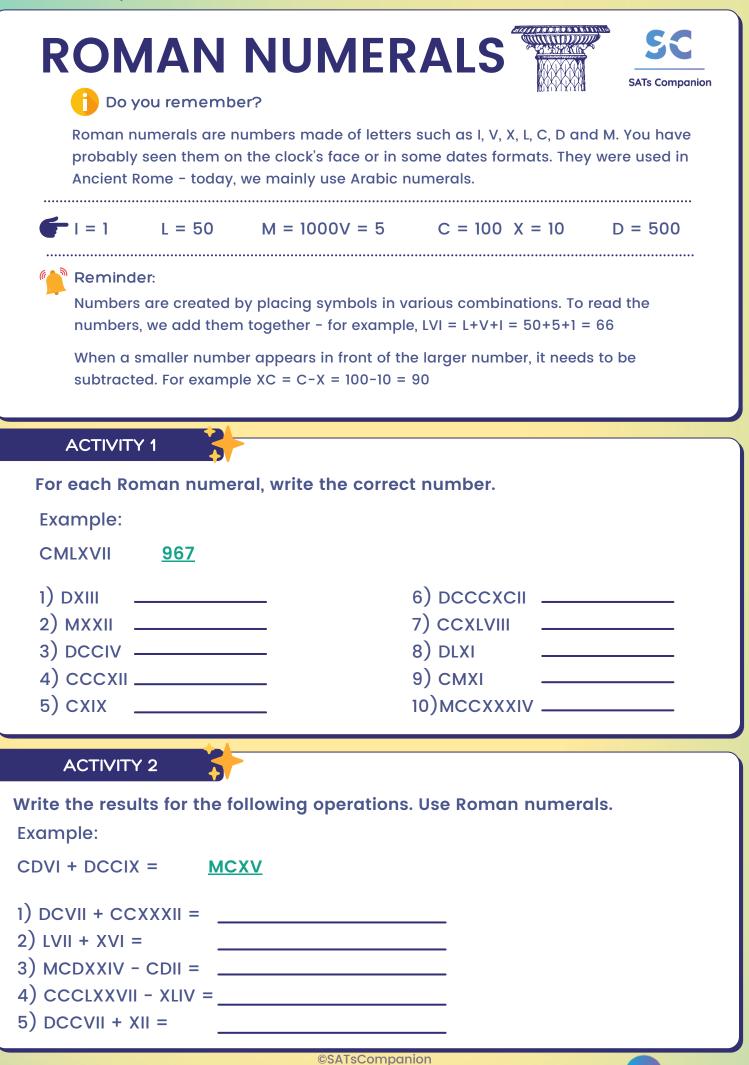
KS2 Maths Topics Differentiated Worksheets Tips and Examples Fun Bonus Activites Answers Included



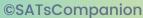
WWW.SATSCOMPANION.COM

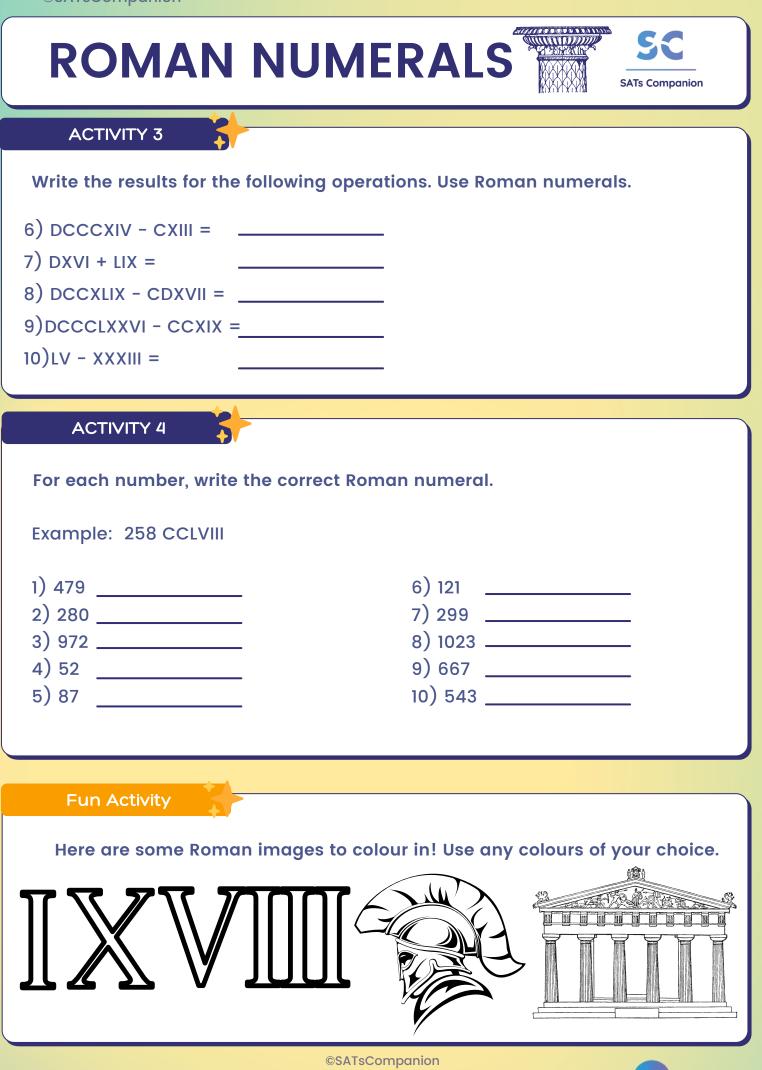
ROUNDIN Do you remember? Rounding means approximatin nearest tens, hundreds, thousa	
 You should round up whe You round down when the 	
To round a number to the ne	earest 10, we need to look at the ones digit. earest 100, we need to look at the tens digit. earest 1,000, we need to look at the hundreds digit.
ACTIVITY 1 Round each number to th Example: 163 200 1) 392 2) 120 3) 434 4) 998	6) 174 7) 874 8) 544 9) 354
5) 862	10)671
Round each number to th Example: 2,399 <u>2,000</u>	e nearest thousand.
1) 2,971 2) 9,139 3) 5,564 4) 4,700 5) 3,633	6) 6,241 7) 8,442 8) 7,322 9) 1,801 10) 5,399

©SATsCompanion
For more free upper KS2 resources visit www.satscompanion.com



For more free upper KS2 resources visit www.satscompanion.com

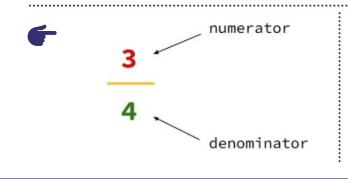




CONVERTING FRACTIONS SATs Companion **TO DECIMALS**

Do you remember?

A fraction consists of a numerator (the top number) and denominator (the bottom number).



Converting fractions to decimals is very easy - all you need to do is to divide a numerator by denominator!

$$\frac{3}{4} = 3 \div 4 = 0.75$$

7

ACTIVITY 1

1)

2)

3)

4)

5)

Convert the

The fractions below to decimals. Example:
$$\frac{1}{10} = 0.7$$

 $\frac{2}{4} = 6$
 $\frac{3}{5} = 7$
 $\frac{3}{5} = 9$
 $\frac{35}{5} = 10$
 $\frac{35}{50} = 10$
 $\frac{25}{125} = 10$

For more free upper KS2 resources visit www.satscompanion.com

DIFFERENCES IN TEMPERATURES



🗲 Iceland: -3 °C 🕂

India: 31 °C



Sometimes you will be asked to assess the differences in temperatures. There is no problem with such tasks when both of the temperature measures are positive values - you simply subtract them.

🗲 Canada: 11 °C 🛛 🏼 🌩 Jamaica: 24 °C 🔀

> The difference: The difference: 24 °C - 11 °C = 13 °C

The difference: $31^{\circ}C - (-3^{\circ}C) = 31^{\circ}C + 3^{\circ}C = 34^{\circ}C$

When one of the measures is a positive value, but the other one is a negative value, you need to be more careful!

ACTIVITY 1

Calculate the differences in the temperatures in the cities below.

Example:	Brussels: 11 °C Moscow: -2 °C Difference: 13 °C	3)	Saint Petersburg: 9 °C Seoul: 12 °C Difference:
1)	Hamburg: 11 °C Mumbai: 33 °C Difference:	4)	Kathmandu: 7 °C Quebec: -4 °C Difference:
2)	Cairo: 26 °C Oslo: –1 °C Difference:	5)	Madrid: 24 °C Edinburgh: -4 °C Difference:

©SATsCompanion

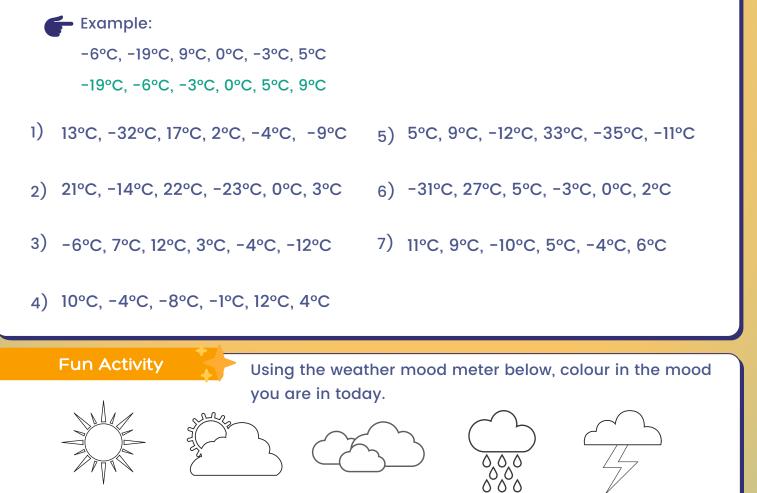


ACTIVITY 2

Extremely Happy

Нарру





©SATsCompanion

Neutrel

Sad

For more free upper KS2 resources visit www.satscompanion.com

SC

Angry

3D SHAPE PROPERTIES

A face is a flat surface. An edge is where two faces meet. A vertex is a corner where edges meet.





ACTIVITY 1

For each 3D shape, fill in the name, number of faces, edges and vertices..



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:



Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:

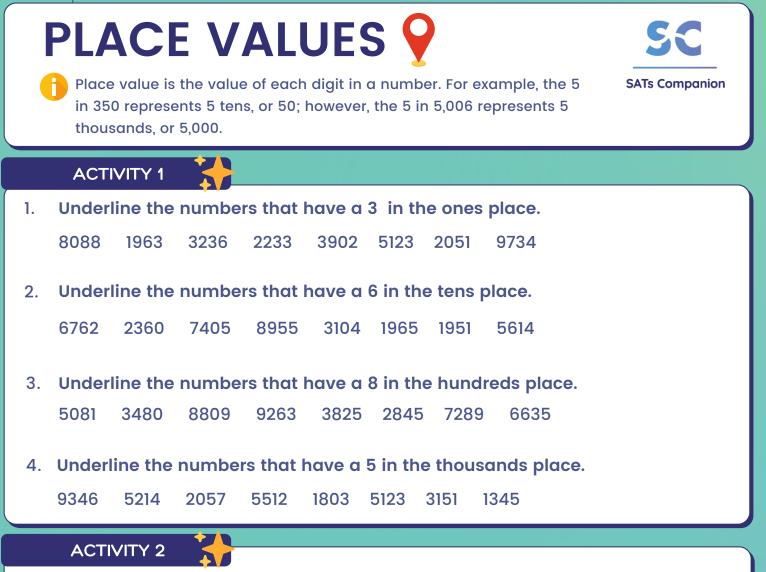


Shape Name: Number of Faces : Number of Edges: Numbe of Vertices:

©SATsCompanion

For more free upper KS2 resources visit www.satscompanion.com





- 5. I want to set my bicycle lock to a combination which is the biggest possible number based on 4 digits. The digits are 1809. What should I set my combination lock to?
- 6. Emily has forgotten her combination for her secret diary. She knows the code is made of 4 numbers which are 7329. Emily thinks the code is the smallest possible combination of these numbers. What is the code?

ACTIVITY 3

Insert the symbols < or > to make the following number statements true.

1.	712	721	7.	3,254	3,154
2.	208	302	8.	4,785	4,986
3.	476	467	9.	5,506	5,589
4.	897	867	10.	6,783	6,649
5.	1,897	1,987	11.	7,329	8,843
6.	2,059	2,109	12.	9,459	9,894

©SATsCompanion

ROUNDING



To round a number to the nearest 10, we need to look at the **ones digit**. **SATs** To round a number to the nearest 100, we need to look at the **tens digit**. To round a number to the nearest 1,000, we need to look at the **hundreds digit**.

ACTIVITY 1

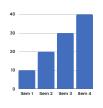
The table below shows how many people attended a football match in different cities of the UK in one month.



Cities	Attendees
Birmingham	2,876
Manchester	6,454
Cardiff	3,386
Liverpool	4,691
Glasgow	9,304
London	5,779

- 1. Which team had the highest attendance?
- 2. How many attendees were there in total for all the cities? Round this to the nearest 100.
- 3. When Birmingham played, the opposing team's fans numbered 1,259. How many is this rounded to the nearest 10, 100 and 1,000?
- 4. Glasgow had 9304 attendees in one month. How many attendees would they have in one year rounded to the nearest 10, 100 and 1000?
- 5.Each ticket costs £5.00. How much would all the tickets for Cardiff cost rounded to the nearest 100?
- 6. Round each city's attendance to the nearest thousand.

7. Draw a bar chart representing the rounded figures in the table above.



Fun Activity

Can you solve this Maths riddle.....? I am between 60 and 64

I am not an even number. I am between 60 and 64 i am not 63



©SATsCompanion

COMMON FACTORS, COMMON MULTIPLES & PRIME NUMBERS SATs Companion A factor is a number that divides into another number exactly and without leaving a remainder. Most numbers have an even number of factors; however, a square number has an odd number of factors. A prime number has only two factors - the number itself and 1. ACTIVITY 1

1) From the list below, select factors of 48. 3 2 5 8 11 12 15 22 24

2) Which of the following is a common multiple of 2 and 3?

b)7 c)6 a) 9

3) Serhat and Ceyda want to find a common multiple of 6 and 8. Serhat claims that 56 is the number they are looking for. Ceyda says that it is 48. Who is right? Circle the correct answer.

Serhat Ceyda

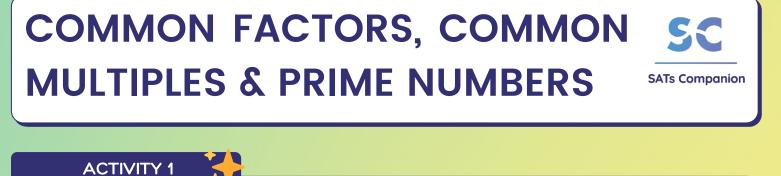
4) Which of the following are prime numbers? Select all the correct answers.

b) 23 c) 29 d) 32 a) 25

5) Circle T if the statement is true, and F if the statement is false.

- a) 29 is a prime number. T/F
- b) 1,2,4,6,12,24 are factors of number 32. T/F
- c) 63 is a common multiple of 3,7 and 9. T/F

6) In the space provided below, write down all the factors of number 64.



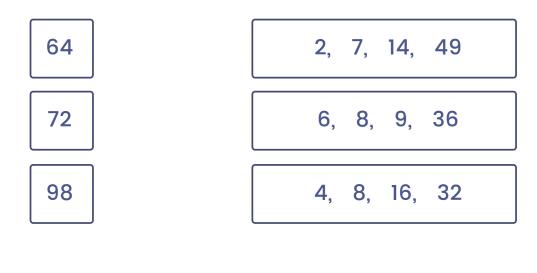


Select all the correct answers.

a) 54 b) 56 c) 84 d) 112 e) 128

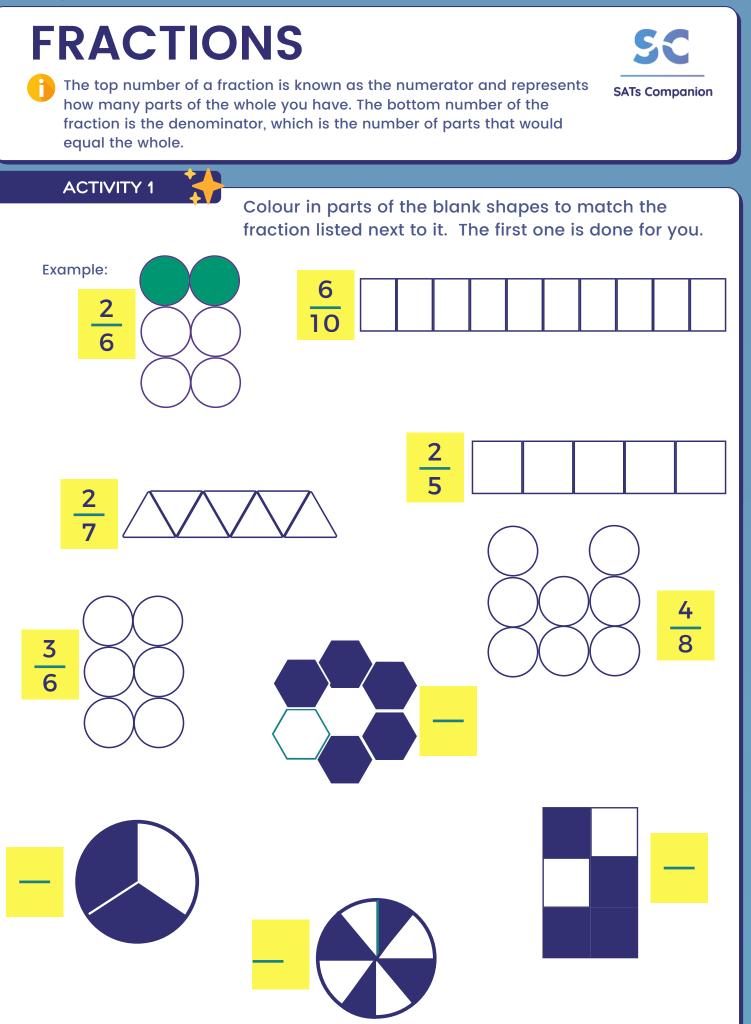
8) Patrick is searching for the highest common factor of 24 and 36. Help Patrick by writing this number in the space provided below.

9) Match each number to its factors.



10) What is the lowest common multiple of 5, 15 and 16?





For more free upper KS2 resources visit www.satscompanion.com

FRACTIONS AND DECIMALS

A Rhyme To Help You Remember

 \square "If adding or subtracting is your aim, the bottom numbers must be the same! \square "change the bottom using multiply or divide, but the same to the top must be applied, \square "and don't forget to simplify, before it's time to say goodbye"

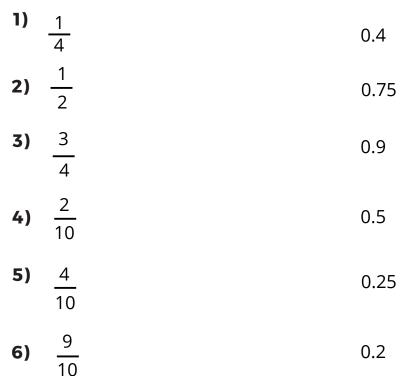
ACTIVITY 1

ACTIVITY 2

Match the decimal with its equivalent fraction.

SATs Companion

SC



Add the following fractions with the same denominator.

1) $\frac{2}{5} + \frac{1}{5} =$ 2) $\frac{1}{8} + \frac{4}{8} =$ 3) $\frac{6}{10} + \frac{2}{10} =$ 4) $\frac{4}{12} + \frac{2}{12} =$ 5) $\frac{4}{7} + \frac{1}{7} =$ 6) $\frac{3}{11} + \frac{6}{11} =$ 7) $\frac{1}{4} + \frac{1}{4} =$ 8) $\frac{2}{6} + \frac{2}{6} =$

ROUNDING [



To round a number to the nearest 10, look at the amount of ones. If this is 5 or more, round up. To round a number to the nearest 100, look at the tens digit. If the tens digit is 5 or more, round up.

To round a number to the nearest 1000, look at the hundreds digit. If the hundreds digit is 5 or more, round up.

ACTIVITY 1

1) Round the following numbers to the nearest 10.

32 →	14 →	85 →
77 →	73 →	99 →
16 →	25 →	37 →

ACTIVITY 2

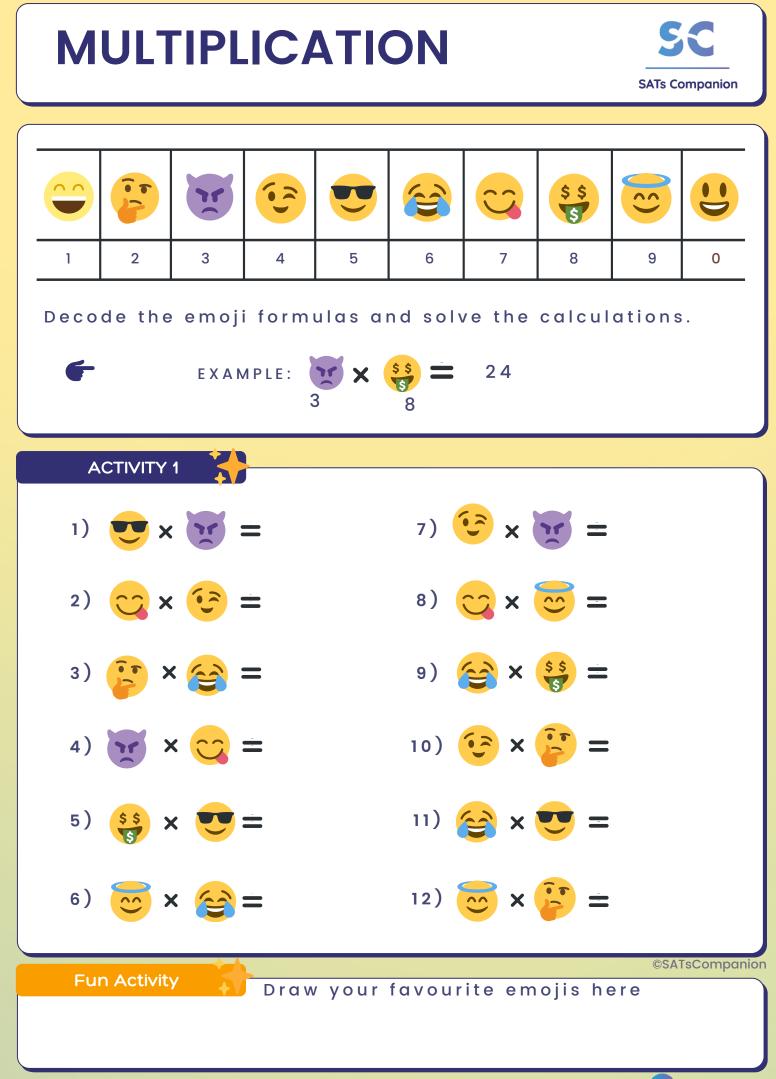
2) Round the following numbers to the nearest 100.

432 →	546 →	654 →
510 →	889 →	138 →
964 →	149 →	972 →
305 →	222 →	349 →
983 →	652 →	266 →

ACTIVITY 3

3) Round the following numbers to the nearest 1000.

5,550→	9,133>	3,478
9,446	4,968→	3,720→
6,055>	3,337>	1,526



NEGATIVE NUMBERS



When adding positive numbers, count to the right.



SATs Companio

When subtracting positive numbers, count to the left.

ACTIVITY 1

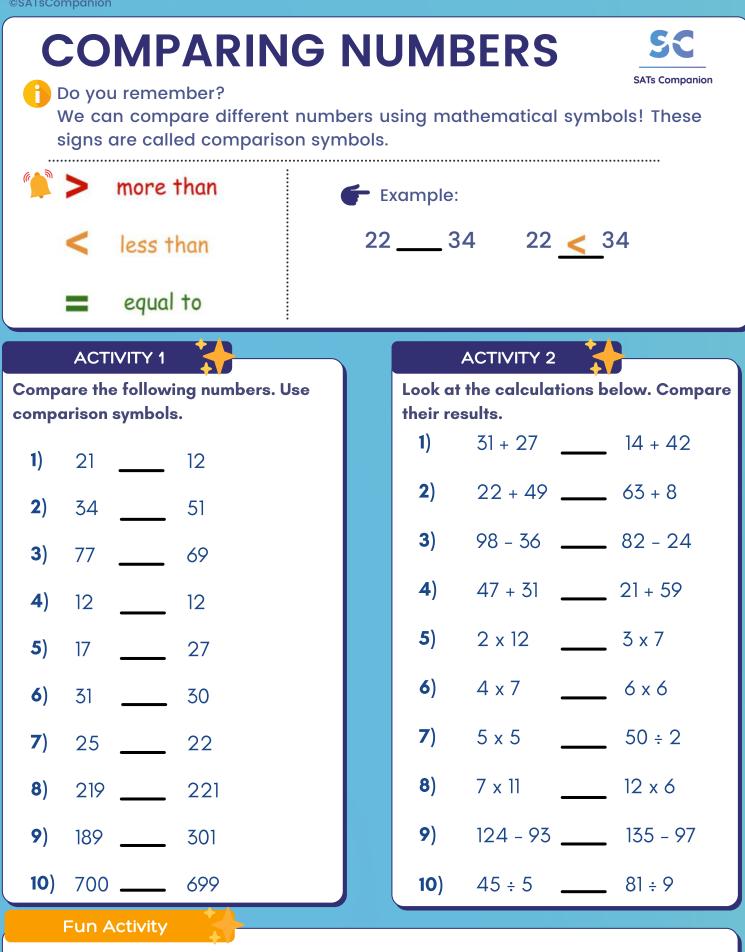
Continue these number sequences.

- 1) -7, -6, -5, -4, -3, -2, -1, _, _, _,
- 2) -6, -4, -2, _, _, _,
- 3) -9, -6, -3, _, _, _,
- 4) -11, -6, -1, _, _, _,

Answer the questions below.

- 1. The temperature rises by 8 degrees from -3°C. What is the new temperature?
- 2. The temperature is -4° C. How much must it rise to reach 6° C?
- 3. What is the difference in temperature between -6°C and 17°C?
- 4. The temperature in the South Pole rises 10 degrees from -55 degrees. What is the new temperature?
- 5. At nine o'clock in the morning the temperature is 5°C. It falls by 9°C at night. What is the new temperature?

Put these numbers in ascending order.	Solve these problems.
1) 1, 3, -3, -5, -7	1) -14 - 2 =
2) -8, -3, 9, -7, 4	2) -2 - 1 =
3) -11, 3, 7, -4, -8	3) -11 + 8=
4) 8, -5, 15, -9, -12	4) -8 + 3 =



black white yellow green red blue yellow red black green white red white green red black yellow green black white yellow green red blue white green red black yellow green



Here's a fun activity to try.... Say the colour of each word. (Don't read the word)

For more free upper KS2 resources visit www.satscompanion.com

Answer Sheet 1 of 6



ROUNDING NUMBERS

Activity 1

1) 392	400
2) 120	100
3) 434	400
4) 998	1000
5) 862	900

6) 174	200
7) 874	900
8) 544	500
9) 354	400
10)671	700

Activity 2

1) 2,971 _	3000
2) 9,139 _	9000
3) 5,564	6000
4) 4,700 -	5000
5) 3,633 -	4000

6) 6,241	6000
7) 8,442	8000
8) 7,322	7000
9) 1,801	2000
10)5,399	5000
,.,.,.	

ROMAN NUMERALS

Activity 1

1) DXIII	513
2) MXXII	1022
3) DCCIV	704
4) CCCXII	312
5) CXIX	119

6) DCCCXCII	892
7) CCXLVIII	248
8) DLXI	561
9) CMXI	911
	1234

Activity 2

1) DCVII + CCXXXII =	839	6) DCCCXIV - CXIII =	701
2) LVII + XVI =	73	7) DXVI + LIX =	575
3) MCDXXIV - CDII =	1022	8) DCCXLIX - CDXVII =	332
4) CCCLXXVII - XLIV <u>=</u>	333	9)DCCCLXXVI - CCXIX =	657
5) DCCVII + XII =	719	10)LV - XXXIII =	22

©SATsCompanion



2) 280 _	CCLXXX
3) 972	CMLXXII
4) 52	LII

5) 87 LXXXVII

6) 121	CXXI
7) 299	CCXCIX
8) 1023 .	MXXIII
9) 667	DCLXVII
10) 543	DXLIII

CONVERTING FRACTIONS TO DECIMALS

Activity 1

1) 0.5	6) 0.4
2) 0.625	7) 0.25
3) 0.52	8) 0.1
4) 0.6	9) 0.125
5) 0.35	10) 0.2

DIFFERENCES IN TEMPERATURES

Activity 1

- 1) 22°C 6) 22°C
- 2) 27°C 7)35°C
- 3) 3°C 8) 31°C
- 4) 11 °C 9) 29°C
- 5) 28 °C 10) 50°C

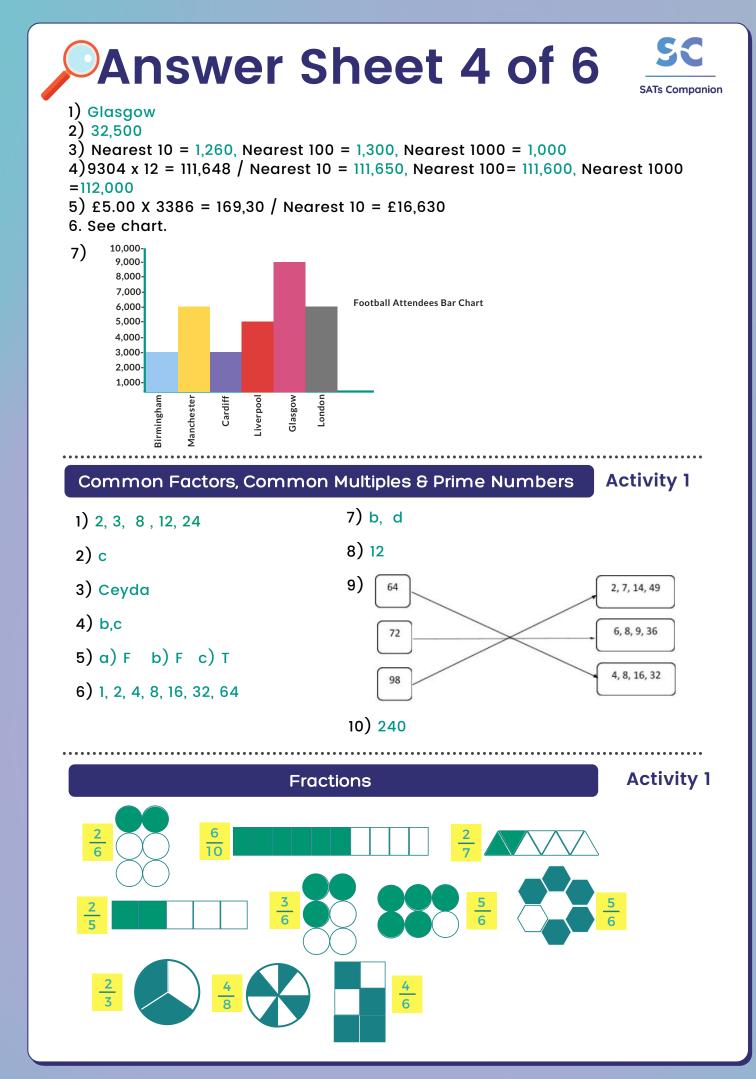
Activity 2

- 1) -32°C, -9°C, -4°C, 2°C, 13°C, 17°C
- **2)** -23°C, -14°C, 0°C, 3°C, 21°C, 22°C
- **3)** -12°C, -6°C, -4°C, 3°C, 7°C, 12°C
- **4)** -8°C, -4°C, -1°C, 4°C, 10°C, 12°C
- 5) -35°C, -12°C, -11°C, 5°C, 9°C, 33°C
- 6) -31°C, -3°C, 0°C, 2°C, 5°C, 27°C
- 7) -10°C, -4°C, 5°C, 6°C, 9°C, 11°C



Answer S	Sheet 3 of 6 SC			
State State				
Activity 1				
Cube Sphere Cylinder 6 Faces 1 Faces 3 Faces 12 Edges 0 Edges 2 Edges 8 Vertices 0 Vertices 0 Vertices Cuboid Triangular-based 6 Faces Pyramid 12 Edges 4 Faces 8 Vertices 6 Edges	Cone 2 Faces 1 Edges 1 VertexTriangular Prism 5 Faces 9 Edges 6 VerticesHexagonal Square-based Prism 8 Faces 18 Edges 12 Vertices1Prism 9 Edges 12 VerticesSquare-based Pyramid 8 Edges 12 Vertices			
4 Vertices	• • • • • • • • • • • • • • • • • • • •			
Place Values Activity 2				
Activity 1	1. 712 < 721 7. 3254 > 3154			
1. <u>1963</u> <u>2233</u> <u>5123</u>	2. 208 < 302 8. 4785 < 4986			
2. 67 6 2 <u>2360</u> <u>1965</u>	3. 476 > 467 9. 5506 < 5589			
3. <u>8809</u> <u>3825</u> <u>2845</u>	4. 897 > 867 10. 6783 > 6649			
4. <u>5214</u> <u>5512</u> <u>5123</u>	5. 1897 < 1987 11. 7329 < 8843			
Activity 2 5. 9810 6. 2379	6. 2059 < 2109 12. 9459 < 9894			
Rounding Activity 1				

Cities	Attendees	Attendees Rounded
Birmingham	2876	3,000
Manchester	6454	6,000
Cardiff	3386	3,000
Liverpool	4691	5,000
Glasgow	9304	9,000
London	5779	6,000



Answ	er Sh	eet 5 o	f 6 <u>sc</u>
Fractions and De			SATs Companion
Activity 1			
1) 0.25 2) 0.5	3) 0.75 4) 0.2 5) 0.4 6) 0.9	
Activity 2	4 1	1	2
1) $\frac{3}{5}$ 2) $\frac{5}{8}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{\frac{5}{7}}{7} = 6) \frac{9}{11} = 7) \frac{\frac{1}{2}}{\frac{9}{4}}$	$\begin{array}{c} 3\\ \text{or}\\ 4\\ \hline 6 \end{array}$
Rounding			
Activity 1			
32 → 30	14 -> 10	85 → 90	5550 → 6000
77 → 80	73 -> 70	99 100	9446 → 9000
16 → 20	25 → 30	37 -> 40	6055 → 6000
Activity 2			9133 → 9000
432 → 400	546> 500	654 → 700	4968 → 5000
510 → 500	889 -> 900	138 -> 100	3337 → 3000
964 → 1000	149 100	972 1000	3478 → 3000
305 -> 300	222 -> 200	349 300	3720 → 4000
983 → 1000	652 → 7 00	266 → 300	1526 → 2000
Multiplica	tion A	ctivity 1	
-	7) 4 x 3 8) 7 x 9 9) 6 x 8	= 48	
Negative N	umbers		
Activity 1	Activity 2	Activity 3	Activity 4
1) 0, 1, 2	1) 5°C	1) -7, -5, -3, 1, 3	1) -16
2) 0, 2, 4	2) 10°C 3) 23°C	2) -8, -7, -3, 4, 9	2) -3
3) 0, 3, 6 4) 4, 9, 14	4) -45°C	3) -11, -8 -4, 3, 7	-, -
. , , = -	5)-4°C	4) -12, -9, -5, 8, 15	4) -5

Answer Sheet 6 of 6



Comparing Numbers

Activity 1

1)	21 > 12	6)	31 > 30
2)	34 < 51	7)	25 > 22
3)	77 > 69	8)	219 < 221
4)	12 = 12	9)	189 < 301
5)	17 < 27	10)	700 > 699

Activity 1

1)	31 + 27 > 14 + 42
2)	22 + 49 = 63 + 8
3)	98 - 36 > 82 - 24
4)	47 + 31 < 21 + 59
5)	2 x 12 > 3 x 7
6)	4 x 7 < 6 x 6
7)	$5 \times 5 = 50 \div 2$
8)	7 x 11 > 12 x 6
9)	124 - 93 < 135 - 97
10)	$45 \div 5 = 81 \div 9$

End of Answers

©SATsCompanion
For more free upper KS2 resources visit www.satscompanion.com



The All-in-one Catch Up and Intervention Tool used within classrooms and remotley.

Year 5 and Year 6 | Maths, SPaG & Reading



