Y6 Home Learning Pack

Miss Gibson's Maths Group

Revision of Spring One Learning

Addition - Choose your chillis and complete the questions				
1. 243 + 156	I. 345 + 472	I. 4537 + 4675	1. 245637 + 36814	
2. 321 + 563	2. 678 + 231	2. 3976 + 5677	2. 1342567 + 453676	
3. 272 + 417	3. 1768 + 453	3. 6543 + 7744	3. 45.67 + 38.19	
4. 546 + 242	4. 3452 + 6738	4. 12378 + 23290	4. 456.43 + 87.95	
5. 3427 + 2162	5. 5346 + 7651	5. 34521 + 57429	5. 1455.99 + 765.34	

Addition - Problem Solving and Reasoning

Which digits are hidden underneath the splats?



Use any digit card from 0 – 9 to create an addition with 1 exchange. You may only use each digit once in any calculation. Your answer must be greater than 782 and less than 858.



Is there more than one possible answer?

Use the digit cards to create addition calculations using two 4-digit numbers with three exchanges.



Find two possibilities.

I	Find	and	exp	olain	the n	nista	kes.		
Α.									
	4	7	8	2					
+	1	4	2	0					
	6	1	0	2	В.				
	1	1				3	2	0	8
					+	2	8	9	9
						6	0	0	6
						1	1	1	

1a. Gary and Jay are comparing their income. Earnings Bonus £17,429 £3,846 Gary Jay £18,283 £1,387 -70 I earnt more because altogether I earnt above £20,000. Gary I must have had a larger income because my earnings were higher than yours. Jay Who is correct? Explain why.

3a. Steph completes this sum incorrectly.

	1	8	4	9	1
+	1	3	7	2	4
	3	1	2	1	5
	1	1	1		

Explain the mistake she has made.

Addition - Problem Solving and Reasoning



Jai	dend	comp	letes	s this	sum	incor
		6	3	2	1	8
			4	2	8	9
	+	3	4	7	0	3
	1	0	2	1	1	0
		1	1	1	2	

Explain the mistake he has made.

Subtraction - Choose your chillis and complete the questions					
1. 432 - 121	I. 657 - 392	1. 5132 - 3981	1. 456371 - 321968		
2. 566 - 345	2. 874 - 683	2. 7658 - 3499	2. 3452098 - 987639		
3. 659 - 233	3. 918 - 645	3. 11376 - 9425	3. 84.78 - 65.89		
4.1654 - 941	4. 3419 - 1613	4. 27865 - 18766	4. 678.45 - 131.94		
5. 5667 - 3496	5. 7628 - 5919	5. 76481 - 54449	5. 1657.65 - 763.48		



Tony has used column subtraction to solve this calculation.



Is he correct? Explain how you know.





Use the digit cards to complete the subtraction.



Kai has used column method to answer the subtraction below.

	² ⁄3	¹ ⁄2	¹ 0	4	3
-	1	0	8	4	2
	1	1	2	1	1

Is he correct? Explain why.



9a. Tim has used column method to answer a subtraction and has written it out below.

8 ten thousands, 200 tens and 9 ones subtract 37 thousands, 98 tens and 3 ones equals 42 thousands, 220 tens and 7 ones.

Is he correct? Explain why.

Multiplication - Choose your chillis and complete the questions					
I. 3 x 2 x 4	I. 5 x 6 x 3	I. 427 x 9	I. 2398 × 8		
2. 4 x 5 x 2	2. 3 x 7 x 5	2. 962 x 8	2. 54 x 17		
3. 36 x 3	3. 435 x 6	3. 3241 × 5	3. 76 x 24		
4. 67 x 5	4. 567 x 7	4. 4536 x 6	4. 127 x 23		
5. 324 x 4	5. 1232 x 4	5. 34 x 12	5. 254 x 34		

Multiplication - Problem Solving and Reasoning



Noah and Layla are trying to get an answer near to the target number. Arrange their three digits to make a 2 digit by 1 digit multiplication calculation with the nearest answer.







Multiplication - Problem Solving and Reasoning



A TV package costs £1,419 per house.

23 houses on Brook Street buy this package. The TV salesperson says the total cost is £32,607.



Is he correct? Explain your answer.

Division - Choose your chillis and complete the questions				
I. 32 ÷ 4	I. 168 ÷ 7	I. 427 ÷ 9	I. 234I÷ 8	Instead of remainders
2. 45 ÷ 5	2. 336 ÷ 6	2. 962 ÷ 4	2. 4571 ÷ 9	divide into the decimals
3. 21 ÷ 7	3. 219 ÷ 3	3. 3241 ÷ 5	3. 7683 ÷ 7	
4. 54 ÷ 6	4. 508 ÷ 4	4. 4536 ÷ 6	4. 8764 ÷ 6	
5. 63 ÷ 9	5. 1208 ÷ 5	5. 5342 ÷ 7	5. 9546 ÷ 5	

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Oranges are packed into nets. One net holds 5 oranges. There are 2,307 oranges. How many nets are needed to hold all the oranges?



Read and write 3,564,789	Read and write Four hundred and fifty-two thousand, two hundred and thirteen
Order smallest to largest 2345.54 3456.21 2354.34	Compare 12,342,443 12,542,546

Order the numbers starting with the smallest.

3 -6 -4 7 -11

Which number is the smallest?

-5 or -6

The temperature is -11°C. It rises by 2 degrees. What is the temperature now?

True or false? The arrow is pointing to -5 on the number line below.



Multiply the middle number by the inner numbers together to get the outer numbers.



Help Captain Salamander to cross the river by shading the stepping stones counting up in 7s.



Count by 7s up to 70



Fill in the missing numbers in the 7 times table.

7 x 1 =	7	7 x 2 =	7 x 3 =	7 x 4 =	7 x 5 =
7 x 6 =		7 x 7 =	7 x 8 =	7 x 9 =	7 x 10 =

Draw lines to match the 7 times table fact to its answer.

7 x 4 🔨	70	7 x 1	56
7 x 2	42	7 x 3	49
7 x 5	28	7 x 8	7
7 x 10	14	7 x 7	63
7 x 6	35	7 x 9	21





2D Shape	A flat shape - they have no thickness.
Polygon	2D shape
Irregular Polygon	The sides of the shape can be different lengths.
Regular Polygon	The sides of the shape are the same length.
Edge	The side of a shape.
Vertex	The point where two sides meet.
Vertices	More than one vertex. A square has 4 vertices.
Quadrilateral	A shape with four edges and four vertices.

5a. Circle the regular polygons.



4a. Has Shamir sorted these shapes correctly? Explain your answer.



7a. True or false? This is a regular hexagon.









6a. How many regular polygons can you see in this shape?





3D Shape	A shape with three dimensions - height, width and depth
Net	A flattened out three dimensional shape
Edge	The side of a shape.
Vertex	The point where two sides meet.
Vertices	More than one vertex. A cube has 8 vertices.
Face	The flat surface of a 3D shape.



VF

Which 3D shape does the statement describe?

My base is a square and I have 4 triangular faces.

Match the faces to the correct 3D shapes.





VF

Which 3D shape does the statement describe?

> I have five faces. Two faces are triangles and three faces are rectangles.

Match the faces to the correct 3D shapes.





Quadrilateral	A shape with four sides and four vertices.
Right-angle	An angle of exactly 90°
Parallel Lines	Lines that never meet. They are always the same distance apart.

1b. Draw lines to match the true statements to the shape.





This shape has ____ sides. It has ____ right angles.



3b. Draw the shape using the description below.

The shape has:

- 4 right angles
- 2 pairs of equal sides

What shape have you drawn?

4b. Circle the quadrilaterals.



5a. Draw lines to match the true statements to the shape.



6a. Fill in the blanks to describe the shape.

This shape has _____ sides. It has _____ right angles. It has _____ sets of parallel sides.



7a. Draw the shape using the description below.

VF

VF

The shape has:

VF

VF

- No right angles
- 2 pairs of parallel lines

What shape have you drawn?

8a. Circle the quadrilaterals.



6b. Kaleb thinks that the shape matches his statement. Is he correct? Explain your answer.



Key words

Radius	A line from the centre of a circle to its perimeter.
Diameter	A straight line passing from side to side through the centre of a circle.
Circumference	The distance around the edge of a circle (its perimeter).



Key fact

The diameter of a circle is twice the length of its radius.

This means if a circle's diameter is 8cm, its radius is 4cm.

This means if a circle's radius is 10cm, its diameter is 20cm.





Use the measurements below to label the radius and diameter.



Match each diameter to its radius.59m47.5m95m63.5m83m29.5m127m41.5m



М	Hth	Tth	Th	Н	Т	U	-	t	h	th

	Fill in the g	aps.		Put these measurements in order from smallest to largest.
	I. 433 m	→ _	cm	
	2. 3.3 l	→	cl	155cm 2.6m 0.6m
	3.1093 g	→ _	kg	Complete the missing operation and measurement to convert
	4. 5.1 km	→	m	between g and kg.
	5.1532 ml ⁻	→ _	I	285a = ka
	6. 35 g	→	mg	2059 – Kg
Find and	d correct the e	rrors in t	hese conversions	5:
				Complete the following statement.
Α.	1,565g	=	1.565kg	
В.	2.35L	=	235ml	
C.	15cm	=	150mm	3,500ml is equal toL.
D.	1 <i>,</i> 500mm	=	1.05m	

1a. Luke thinks that his horse ate the most hay on Thursday.

	9am	12pm	8pm
Wed	2.5kg	3,300g	2.5kg
Thu	1.5kg	3, 500g	3,400g

Do you agree? Explain why.

3a. Grace has filled in a table after converting from cm to m.

cm	m
2,450cm	25.4m
3,240cm	34.2m
4,260cm	46.2m

Is her table correct? Explain why.

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2a. Mike is practising converting different units of measure.

He says,



What could his starting millilitres have been? Find 3 possibilities. 4a. John thinks that his pet snail travelled the farthest on Tuesday.

	9am	12pm	3pm
Mon	5.01m	120cm	471cm
Tue	149cm	1,300mm	200cm

Do you agree? Explain why.

5a. Aelin is practising converting different units of measure.

She says,



I start off with a number of grams. When converted to kg, my amount has 2 decimal places and is between 4kg and 4.1kg.

What could her starting grams have been? Find 3 possibilities. 6a. Joey has filled in a table after converting from ml to L.

ml	L	
24ml	0.042L	
310ml	0.13L	
1,820ml	1.28L	

Is his table correct? Explain why.

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Remember - perimeter is the distance around the outside of a shape. To find it you must add all the sides. If they are missing you must find the lengths before adding.

Calculate the perimeter of each of these shapes. Write the answer inside the shape. Always check the units of measure and remember that these drawings are not to scale!



Remember - area is the amount of space a shape takes up. To find it you must multiply the width by the length. a = w x l

Calculate the area of the following rectangles.

The shapes are not to scale.





Calculate the area of each rectangle, then calculate the area of the whole compound shape.



Identify the shapes where the area can be calculated. Calculate the area of each compound shape.