

Transition Workbook

Year 6 to Year 7



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In this booklet, there are a range of questions from key topics that you will have seen in year 6 and will be helpful for the start of year 7.

Each topic has three sections:

- Introduce questions are warm-up questions to practise the basics.
- Strengthen questions build your knowledge in key concepts.
- **Deepen** questions are more challenging reasoning and problem-solving questions. The Deepen questions along with the answer sheet are on the MRC Transition webpage.

Use the grid below to keep track of your progress in each topic. Tick the sections you have attempted. If you use Sparx Maths you can find even more questions by searching for the Sparx topic codes in Independent Learning.

	1	S	D	Sparx topic codes	Teacher comment
Place value	\bigcirc	\bigcirc	\bigcirc	M704 M522	
Negative numbers	\bigcirc	0	\bigcirc	M527	
Rounding	\bigcirc	0	\bigcirc	M111 M431	
Adding	\bigcirc	0	\bigcirc	M928 M429	
Subtracting	0	0	\bigcirc	M347 M152	
Multiplying	0	0	\bigcirc	M113 M187	
Dividing	0	0	\bigcirc	M462 M354 M873	
Fractions 1	0	0	\bigcirc	M158 M939	
Fractions 2	\bigcirc	0	\bigcirc	M410 M671 M335	
Factors and prime numbers	0	0	\bigcirc	M322 M823	
Area and perimeter	0	0	\bigcirc	M390 M635	
Ratio relationships	\bigcirc	\bigcirc	\bigcirc	M478	

	Place value Introduce
Q1	Which one of these numbers has 4 tens? 543, 534, 435, 4563
	Answer:
Q2	Write four hundred and six in figures.
	Answer:
Q3	Write down these numbers in order of size, starting with the smallest: 3.8, 3.6, 3.9, 3.5, 3.4
	Answer:
Q4	In which two of these numbers does the digit 7 have a value of 0.7? 57.2 23.71 64.17 79.24 17.56 14.78
	Answer: and

Q1	Which of these numbers shows five thousand and eight ?
	5008 50,008
Q2	Arrange these numbers in ascending order (from smallest to largest): 4.46, 9, 8.8, 1.5, 6.06, 4.21
	Answer:
Q3	Which of these numbers is closest to 1? 0.9404 0.907 0.94 0.9005 0.9306 0.9408 Answer:
Q4	Arrange the number cards in the place value grid to make the largest possible number. $\begin{array}{cccccccccccccccccccccccccccccccccccc$

Introduce



Strengthen

Q1	Find the temperature that is 9°C lower than 4°C.
	°C -10 -5 0 5 10 Lower Higher Answer: °C
Q2	Write these temperatures in order, starting with the coldest: 9°C, -8°C, 3°C, -10°C, 0°C, 7°C Answer:
Q3	Write these numbers in ascending order (lowest to highest). 77, -17, -770, 700, 7, 70 Answer:
Q4	Write < or > in the empty boxes below to make the statements correct.
	3 -7 -2 -8 -6 -4
Q5	Write down these numbers in ascending order (lowest to highest). 2.1, -4.5, 4.3, -4.2, -2.5, -2 Answer:

	Rounding		Introduce
Q1	What is 63 rounded to the nearest 10?		
		Answer:	
Q2	What is 720 rounded to the nearest 100?		
		Answer:	
Q3	Round 350 to the nearest 100		
		Answer:	
Q4	What is 12.5 rounded to the nearest whole number?		
		Answer:	
Q5	What is 5.47 rounded to the nearest whole number?		
		Answer:	



Q1	Rounding to the nearest ten, which two numbers round to 40?
	46 33
	41 39 48 Answer: and
Q2	A pair of jeans costs £21.62 What is the cost of the jeans to the nearest £1?
	Answer: f
Q3	What is 5279 rounded to the nearest 100?
	Answer:
Q4	When rounded to the nearest 1000, which two of these numbers round to 8000?
	7496 8572 8312 7528 7216 8763
	Answer: and
Q5	What is 990 rounded to the nearest 100?
	Answer:



Q1	Complete the ca 1 4 5 + 3 5 2	lculation to w	ork out 145 + 352 Answer:		
Q2	Complete the ca 1 6.3 + 2 5.2	lculation to w	ork out 16.3 + 25.2 Answer:		
Q3	Use the prices be Ruler Pencil Blue pen Green pen Eraser	elow to work o 30p 25p 35p 40p 20p	out the total cost of two erasers Answer:	and one pencil.	р
Q4	What is the total	cost of a tube £3.30	e of toothpaste and a toothbrush Answer: f	n?	
Q5	Add together 17	50 and 281	Answer:		

Adding



Q1	Work out 135 + 17 + 133		
		Answer:	
Q2	Work out 18.2 + 34.1 + 13.5		
		Answer:	
Q3	Work out 15.6 + 8.76		
		Answer:	
Q4	Calculate 17468 + 2606		
		Answer:	



Q1	Complete the calculation below t	to work out 847 - 215
		Answer:
Q2	Work out 3784 - 313	
		Answer:
Q3	Work out 646 - 271	
		Answer:
Q4	Work out 35.6 - 12.5	
		Answer:
Q5	Work out 56.4 - 13.7	
		Answer:



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	Answe	er:
Q5	Work out 2361.4 - 84.9	
	Answe	er:
Q4	Subtract 3.5 from 13.3	
	Answe	er:
Q3	Subtract 1549 from 1637	
	Answer:	f
Q2	Tyler went to the shop with £8.30. He spent £4.60 How much did he come home with?	
	Answer:	f
Q1	Rob has £154. He spends £82 on a new coat. How much money does Rob have left?	

	Multiplying	Introduce
Q1	Work out 720 x 10	
	Ansv	ver:
Q2	Work out 56 x 100	
	Ansv	ver:
Q3	Work out 17 x 3	
	Ansv	ver:
Q4	Work out 26 x 7	
	Ansv	ver:
Q5	Multiply 284 by 5	
	Ansv	ver:



Q1	Use th	ne mult	iplicat	ion tak	ole bel	ow to
	×	11	12	13	14	15
	21	231	252	273	294	315
	22	242	264	286	308	330
	23	253	276	299	322	345
	24	264	288	312	336	360
	25	275	300	325	350	375
Q2	Work	out 36	x 21			
Q3	Work	out 17	x 503			
Q4	One ta How n	able co nuch w	osts £6 vould 5	3 502 tak	oles co	st?

	Dividing	Introduce
Q1	Work out 720 ÷ 10	
	Answer:	
Q2	What is 64.1 ÷ 10?	
	Answer:	
Q3	I have 21 coins and want to arrange them into 3 equal groups. How many coins will be in each group?	
	Answer:	
Q4	What is the remainder when 23 is divided by 4?	
	Answer:	
Q5	Work out 65 ÷ 5	
	5 6 5 Answer:	
Q6	Divide 170 by 5	
	Answer:	

	Dividing Strengthen
Q1	Work out the number that should go in the box to complete the calculation.
	÷ 10 = 0.3
Q2	Divide 312 by 6
	Answer:
Q3	Divide 266 by 7
	Answer:
Q4	Anne has £144 to share between her 6 grandchildren for Christmas. If she divides the amount equally between them, how much does each grandchild receive?
	Answer: f
Q5	Calculate 288 ÷ 12
	Answer:



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Strengthen









Introduce

Q1	Work out all the factors of 10 by completing the factor pairs below.
	10 = x
	10 = x
Q2	Work out all the factors of 14
	Answer:
Q3	Which two numbers complete the following sentence?
	7 is a prime number because it only has two distinct factors, which are and
Q4	For each number, decide whether it is prime or not prime:
	a) 5
	b) 1
	c) 8 c)
Q5	Find all of the prime numbers from the list:
	11, 18, 1, 17, 21, 14 Answer:
Q6	Write out all of the prime numbers between 0 and 10
	Answer:

Strengthen

Q1	Which number in the list below is not prime?
	13, 15, 19, 17 11
	Answer:
Q2	Find all the factors of 20
	Answer:
Q3	Which three of the numbers below are factors of 100? 2, 9, 10, 25, 35, 200
	Answer: , and and
Q4	How many factors does 40 have?
	Answer:

Area and perimeter



Introduce

Area and perimeter



Introduce



Q2

Q3

A recipe to serve 4 people uses 200g of flour.

How much flour is needed to make the same recipe to serve 8 people?

8

Answer:

Asher buys 6 identical sweets that cost 18p in total.

How much does 1 of the sweets cost?



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Q1

Q2

Imran is making fairy cakes using the recipe below. How much flour is needed to make 20 fairy cakes?

2	odde		
400 -	eggs		
120 g	flour		
100 g	sugar		
80 g	butter		
$\frac{1}{2}$ tsp	vanilla essence	Answer:	

Answer:

Q3

Indie makes some strawberry muffins following the recipe provided. If Indie uses 550g of flour, how many grams (g) of strawberries must she use?

Strawber	ry Muffins	
1	egg	
110 g	flour	
120 g	sugar	
60 g	butter	
50 g	strawberries	Answer:

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