

- I Circle the **five** square numbers.
- 21 9 100 80
- 2 Arrange 10 dots to show why 10 is a triangular number.



- 4 Which pair of temperatures show the highest and lowest temperatures in the table?
 - -23.9, -89.2
 - -23.0, -89.2
 - -23.0, -23.9
- **5** Show how the distributive rule can be used to split and multiply this calculation.



36

6

48

81

USA's population in

2050: 420 000 000

25

32



Coldest recorded temperature on each continent (°C)				
Africa	Ifrane, Morocco	-23.9		
Antarctica	Vostok	-89.2		
Asia	Oymyakon, Russia	-71.2		
Australia	Charlotte Pass	-23.0		
Europe	Ust-Schugor, Russia	-58.1		
North America	Northice, Greenland	-66.0		
South America	Sarmiento, Argentina	-33.0		



Use these facts to help you solve the operations below.

 China's population in
 USA's population in

 2010:
 1 348 000 000 2010:
 309 000 000

- 6 China's population in 2050 is predicted to be 76 000 000 more than its population in 2010. What is China's predicted 2050 population?
- 7 How many more people are predicted to be living in the USA in 2050 compared to 2010?
- 8 In 2010, one fifth of the world's people lived in one country, China. Calculate the approximate population of the world at that time.
- Australia's largest state, Western Australia, is about
 37 times the area of Tasmania. Calculate the approximate area of Western Australia.
- 10 The area of Australia is about 4 times the size of Mexico. What is the approximate area of Mexico?



Working



Year 6 End-of-year Test Number and Algebra

11	95 ÷ 4 (with remainder to hundredths)		Working
12	346 ÷ 8 (with remainder to hundredths)		
Us	e backtracking to rewrite these equations, then	work out the unknown	
13	(x 5) - 3 = 37		
14	(x 9) - 6 + 100 = 121		
15	$\frac{2}{5} = \frac{1}{15}$		
16	Paul's pizza is cut into eighths. He eats four pieces. What fraction of the pizza is left?	$ \begin{array}{ccccc} \frac{1}{4} & \frac{3}{4} & \frac{1}{2} & \frac{5}{8} \\ \hline & \bigcirc & \bigcirc & \bigcirc & \bigcirc \end{array} $	
17	Which fraction is more than half?	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Ac eq	ld or subtract these fractions by first convertin uivalent fractions with the same denominator.	g them into	
18	$\frac{3}{4} + \frac{1}{8} =$		
19	$\frac{2}{3} - \frac{4}{9} =$		
20	Use the Stoney Creek National Park sign to work out the distance from the Rock pool to The Falls.	Stoney Creek National Park Walking Tracks Information hut •••••••••••••••••••••••••••••••••••	
21	I – 0.75	Rock pool 6.2 km	
22	0.5 x 0.5	• • Miner's hut 3.8 km Lookout • •	
23	0.3 × 7	•••••••The Falls	
24	0.09 x 0.2		



Year 6 End-of-year Test Number and Algebra

	Take away menu H	amburger \$5.65	Hot dog \$4.20	Salad wrap \$5.95	Hot chips \$2.50	Working
Us	se the Take away menu	to calculate	the cost o	f these orders.		
25	A hot dog, a salad wra	o and hot chip	s			
26	What is the change fro \$20.00 for one hambu	m rger?				
27	How much for four har	nburgers?				
28	Share a \$16.80 lunch b four people.	ill equally amo	ong			
29	770 is equal to:		○ 7.7 x	10		
			○ 7.7 x	100		
			○ 7.7 x	1000		
30	Which number is large: Colour one bubble.	t?	$\bigcirc \frac{7}{10}$			
			0.75			
31	How much for \$80 shc	es after a disc	ount of 20%	?		
32	Calculate the operation	ns in the correc	ct order.			
	0.4 + 0.6 ÷ 2					



Year 6 End-of-year Test Measurement and Geometry





40 Use your preferred strategy to calculate the **area** of this shape.



41 How many minutes shorter is Skaredy Katz than Kid President?

Movie Guide						
Movie	Session times			Length		
The Fairy Brats	9:20	11:30	1:30	I h 48 min		
Kid President	9:00	11:20		2 h 10 min		
Skaredy Katz	2:30	4:00	5:30	I h 26 min		
Harry Potty	1:30	4:20	7:10	2 h 40 min		

42 Sketch a net for this 3D object.



43 The distance from Clifton to Woodford is **6 km**. How far is Ferndale from Clifton?



Working



44 Use your knowledge of the properties of angles to work out the missing angles.







- **45** Draw the shape from **AI** in its final location.
 - Flip to the right I square
 - Slide down 4 squares
 - Slide right 1 square and rotate 180°.











Year 6 End-of-year Test Statistics and Probability

What is the probability of these events?

47 Spinning a **7** on the wheel.

\bigcirc	\bigcirc	\bigcirc
<u> </u>	<u>7</u>	<u> </u>
7	12	2

48 Spinning an even number on the wheel.

\bigcirc	\bigcirc	\bigcirc
one out	one out	six out
of two	of twelve	of ten

49 Spinning a number less than I3.

\bigcirc	\bigcirc	\bigcirc
unlikely	likely	certain

50 Two dice were rolled and the results recorded. Present the two-dice totals as a dot plot.









ISBN 978 | 74135 230 6



Answers

Number and Algebra



Measurement and Geometry

33	1.5	3	4 3000	35	600	
36	8	37	32 cm	38	5 mn	n
39	52 mi	n	40 46	5 m ²	41	44 min



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Statistics and Probability

