Activity Booklet 3 Answers

Activity 1.1	The Roman numerals written in figures are:		
Talk Maths	XXV = 25, XIX = 19, XLVII = 47, LXI = 61, XCIV = 94, CCLXXVIII = 278		
Activity 1.2 Key Skills	While playing the game, encourage the children to talk about how we use addition when a smaller symbol is after a larger symbol, and we use subtraction when a smaller symbol is before a larger symbol. For example, VI = 6 because we read the symbols as 5 + 1. IX = 9 because we read the symbols as 10 - 1.		
	1. The Roman numerals written in figures are 60 , 45 , 102 and 99 .		
	a) The greatest number is 102 (CII).		
Activity 1.3	b) The smallest number is 45 (XLV).		
Using and Applying	 The possible Roman numerals which are greater than 124 and less than 130 are: CXXV (125), CXXVI (126), CXXVII (127), CXXVIII (128) or CXXIX (129). 		
	3. MMI = 2001		
Assess and Review 1.4	Encourage the children to notice that the child answering the question has written the digit 9 in Roman numerals using VIIII, which is incorrect as there should not be more than three of the same symbols together. The correct answer is CLXXIX.		
	1. Three night-vision cameras = £61 × 3 = £183		
Activity 2.1	2. Four pairs of x-ray specs = £15 × 4 = £60		

Talk Maths3. Five pairs of super-speed boots = £49 × 5 = £245



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Activity 2.2 Key Skills	There are 8 gadgets in a box. Andy has 23 boxes. How many gadgets does he have altogether? 23 × 8 = 184	Every day during target practice, Ugo uses 36 fireballs. After one week, how many fireballs will he have used? 36 × 7 = 252		
	The superheroes rescue 324 bags of stolen gems. They put the bags into six equal groups. How many bags are in one group?	Every day during flying practice, Alex flies for 78 minutes. After nine days, how many minutes of flying has she completed?		
	324 ÷ 6 = 54	78 × 9 = 702		
	On a rescue mission, Ellie uses her spy-copter to transport people to safety. The spy-copter can carry five people at a time. If there are 345 people to rescue, how many journeys will Ellie need to make to rescue everyone?	Chloe jumps over 234 cars and then another 36 more cars. Andy jumps twice as many cars. How many cars did Andy jump over? (234 + 36) × 2 = 540		
	345 ÷ 5 = 69			
	Chloe has 244 fireballs. She uses 24. She shares the remaining fireballs into ten equal groups. How many fireballs are in each group?	Over 9 days, the superheroes rescue 252 people. How many people did they rescue on average each day? 252 ÷ 9 = 28		
	(244 - 24) ÷ 10 = 22			
Activity 2.3	 (265 - 35) ÷ 10 = 23 fireballs (38 + 29) × 7 = 469 fireballs 			
Using and Applying	3. (270 - 42) ÷ 6 = 38 bags of gems	;		
Assess and Review 2.4	Encourage the children to notice that t chosen the correct operation for the they have done 48 - 9 = 39 instead of 5 complete pages.	he child answering the question hasn't second calculation in the problem; f 48 ÷ 9 = 5 r3. The correct answer is		

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	The matching equivalents are:								
	0.2	$\frac{1}{4}$ 25 and $\frac{1}{4}$	20% a	nd 0.2	$\frac{3}{4}$ and 75	5%	0.53 and 539	%	
	Then	nissing equiva	lants for as	ich nair ar					
Activity 3.1 Talk Maths	25	w	<u>1</u>	ich pull uie	. 0.75		53		
		70	5		0.75		100		
	The e	quivalents in	ι order fro	m smalles	t to greates	t are:			
	0.2	2, 0.25, 0.53,	0.75						
	The m	natching equiv	/alent card	s are:					
	0.5	5 and $\frac{1}{2}$	$\frac{23}{100}$	and 0.23					
Activity 3.2 Key Skills	70	% and 0.7	<u>3</u> αn	nd 0.75					
	25	% and $\frac{1}{4}$	0.4 (and $\frac{2}{5}$					
	1.	The fraction,	decimal a	nd percent	ages sorted	into the	correct place o	n the	
		sorting alagram are:							
		Less than $\frac{1}{2}$			G	Greater than $\frac{1}{2}$			
		0.06	32%	0.21	0.9	$\frac{11}{20}$	75%		
	2.	0.06 The greatest	32% number in	0.21 a each row	0.9	<u>11</u> 20	75%		
Activity 3.3	2.	0.06 The greatest $1\frac{2}{5}$	32% number in	0.21 1 each row 1.3	0.9 is: 35	(1.4 c	75% and 1.35)		
Activity 3.3 Using and Applying	2.	0.06 The greatest	32% number ir	0.21 a each row 1.3	0.9 is: 35	(1.4 c	75% and 1.35)		
Activity 3.3 Using and Applying	2.	0.06 The greatest $1\frac{2}{5}$ $1\frac{3}{4}$	32% number ir	0.21 a each row 1.3 1.	0.9 is: 35 7	(1.4 c	75% and 1.35) and 1.7)		
Activity 3.3 Using and Applying	2.	0.06 The greatest $1\frac{2}{5}$ $1\frac{3}{4}$	32% number ir	0.21 n each row 1.3 1.	0.9 is: 35 7	(1.4 c	75% and 1.35) and 1.7)		
Activity 3.3 Using and Applying	2.	0.06 The greatest $1\frac{2}{5}$ $1\frac{3}{4}$ $1\frac{7}{100}$	32% number ir	0.21 a each row 1.3 1.	0.9 is: 35 7	11 20 (1.4 c (1.75 (1.07	75% and 1.35) and 1.7) and 1.7)		
Activity 3.3 Using and Applying	2.	0.06 The greatest $1\frac{2}{5}$ $1\frac{3}{4}$ $1\frac{7}{100}$	32% number ir	0.21 n each row 1.3 1.	0.9 is: 35 7	11/20 (1.4 c (1.75 (1.07	75% and 1.35) and 1.7) and 1.7)		
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Activity 5.1 Talk Maths	While playing the game, encourage the children to explain how they can calculate the time durations. Address any misconceptions as they arise.
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Activity 5.2 Key Skills	True The number 24 bus is at the supermarket at 12:40.	True The next stop after the police station is the cinema.	
	True It takes eight minutes for the buses to travel from the DIY store to the supermarket.	True It takes twenty-two minutes for the buses to travel from the car park to Hilltop Road.	
	True The stop before the DIY store is a pizza restaurant.	True The number 33 bus is at the cinema at twelve minutes to two o'clock in the afternoon?	
	True The number 38 bus is at Greengate Lane 75 minutes after the number 24 bus.	True The stop for the police station comes after the pizza restaurant.	
	False The number 29 bus is at the supermarket at 12:57.	False The next stop after the police station is the car park.	
	False It takes five minutes for the buses to travel from the pizza restaurant to the DIY store.	False It takes twenty minutes for the buses to travel from the police station to the cinema.	
	False The stop before the car park is the police station.	False The number 33 bus is at the car park at ten minutes to two o'clock in the afternoon?	
	False The number 38 bus is at the pizza restaurant 30 minutes after the number 33 bus.	False The buses stop at the police station after the cinema.	



Activity 5.3 Using and Applying	 1. 17:23 2. 2 hours 0 minutes
Assess and Review 5.4	Encourage the children to notice that the child answering the question has incorrectly calculated the time duration from 16:29 until 17:00 as 29 minutes. The correct answer is 31 minutes.

