Percentage of an Amount – Multi-Step

1) Use the bar model to help you find these percentages of 400.

400									
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%

a) 10% = ☐ **b)** 30% = ☐ **c)** 50% = ☐

d) 80% = ☐ **e)** 90% = ☐

2) Find 1% of each of these numbers. Then, use your answers to find the other percentages and complete the table.

	1%	6%	9%
200			
7000			
80			

3) Using the example below, find two different ways to make each of these percentages.

21% = 10% + 10% + 1%

21% = 20% + 1%

a) 55% = ☐

b) 99% = ☐

4) Use your answers from question 3) to help you find the percentages of these amounts.

a) 55% of 8000 = _____

55% of 400 = _____

55% of 80 = _____

b) 99% of 4000 = _____

99% of 150 = _____

99% of 90 = _____

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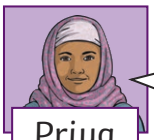
1) Is each child's statement true or false? Prove it using an example.

Joseph

To find 30% of a number, I can divide the number by 10 and then multiply by 3.

To find 30% of a number, I can divide the number by 30.

Elias



Priya

To find 30% of a number, I can divide the number by 100 and then multiply by 30.

2) Drew wants to find an efficient way of calculating 49% of 800.

Drew

First, I will find 50% and 1%. Then, I will subtract 1% from 50%.

Drew's calculations:

50% of 800 = 400

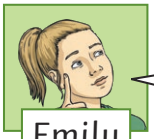
1% of 800 = 80

400 + 80 = 480

49% of 800 = 480

Look carefully at Drew's calculations and correct any mistakes they have made.

3) Emily and Hari are comparing who saved the most money in a sale.



Emily

I think that I saved the most money by getting 65% off the price of the coat.

I disagree. By getting 75% off the price of the jumper, I saved the most money.

Hari

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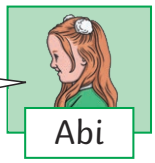
Percentage of an Amount – Multi-Step

1) Zeke and Abi are thinking of the most efficient way of finding 45% of 400.

Zeke: I am going to find 50% and then subtract 5%.

Abi: I am going to find 4 × 10% and then add 5%.



Find two different combinations of percentages that you could use to find these percentages of amounts. Then, use one of those methods to calculate the answer.

a) 77% of 80

b) 89% of 300

c) 37% of 6500

2) Using the example below, complete the number statement using the cards. Can you find three different ways?

40%	of	180	=	15%	of	480	
	of		=		of		
	of		=		of		
	of		=		of		
	of		=		of		

30%	40%	105	240
10%	180	35%	20%
360	70%	300	15%
	120	480	

3) Use the clues to identify what each number could be.

a) I am a 4-digit even number. My hundreds and tens digits are the same. My thousands digit is half of my ones digit. 50% of me is between 2250 and 2300.

b) I am an odd 2-digit number. 10% of me is between 6 and 7. My tens digit is double my ones digit.

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