



Solving Percentage Problems

I can solve problems involving percentages.



Solve the following problems. For at least one the problems, use a bar model to help you solve the problem. Show all stages of your working out:

1. Twinkl Superstore is having a mega sale! Each item has been reduced. Calculate how much each item will now cost.



Skateboard

Laptop

Mobile Phone



2. Priti scores the following in a daily spelling test:

Monday	Tuesday	Wednesday	Thursday	Friday
5/10	4/10	7/10	6/10	8/10

What is the weekly total?

Weekly Total = _____

She practises at home and repeats the tests the next week and increases her scores by 10%, what would her weekly total now be?

3. Karl ran twice in one week. On Monday, he ran for 50 minutes. The next day, he ran for 10% longer. How many minutes did he run altogether on the two days?

4. A bike costs £160 after being reduced by 20%. How much did the bike cost before it was reduced?



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Skateboard

Laptop

Mobile Phone



2. On Monday, Dinesh cycled 5.5km. The next day, he cycled 20% further. He wanted to have covered 15km in total. How much further would he need to cycle?

3. I think of a number then I reduce it by 75%. The number I end up with is 120. What was my starting number?

4. A sunflower plant measures 600mm two weeks after it was planted. At four weeks, it measures 10% more than it did at two weeks. After six weeks, it was 25% higher than how tall it was at four weeks. How tall was it at six weeks?



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Skateboard

Laptop

Mobile Phone



2. I think of a number and I reduce it by 60%. Then I add 60 to the number. The number I end up with is 240. What was my starting number?

3. A shop sells 600 televisions in a year. If this is a 50% increase on sales the previous year, how many televisions were sold the year before?

4. Dinesh cycles for four days. On day one, he cycles 1km. Every day, he cycles 10% further than the day before. How far does he cycle for the whole four days?



Solving Percentage Problems **Answers**

Question	Answer
1.	Twinkl Superstore is having a mega sale! Each item has been reduced. Calculate how much each item will now cost.
Skateboard:	£80
Laptop:	£255
Mobile Phone:	£84
2.	Priti scores the following in a daily spelling test:
Weekly Total:	30/50
New Total:	33/50
3.	Karl ran twice in one week. On Monday, he ran for 50 minutes. The next day, he ran for 10% longer. How many minutes did he run altogether on the two days?
	105 minutes
4.	A bike costs £160 after being reduced by 20%. How much did the bike cost before it was reduced?
	£200



Solving Percentage Problems **Answers**

Question	Answer
1.	Twinkl Superstore is having a mega sale! Each item has been reduced. Calculate how much each item will now cost.
Skateboard:	£108
Laptop:	£297.50
Mobile Phone:	£134
2.	On Monday, Dinesh cycled 5.5km. The next day, he cycled 20% further. He wanted to have covered 15km in total. How much further would he need to cycle?
	2.9 km
3.	I think of a number then I reduce it by 75%. The number I end up with is 120. What was my starting number?
	480
4.	A sunflower plant measures 600mm two weeks after it was planted. At four weeks, it measures 10% more than it did at two weeks. After six weeks, it was 25% higher than how tall it was at four weeks. How tall was it at six weeks?
	825mm



Solving Percentage Problems **Answers**

Question	Answer
1.	Twinkl Superstore is having a mega sale! Each item has been reduced. Calculate how much each item will now cost.
Skateboard:	£201.50
Laptop:	£440
Mobile Phone:	£187.60
2.	I think of a number then I reduce it by 60%. Then I add 60 to the number. The number I end up with is 240. What was my starting number?
	450
3.	A shop sells 600 TVs in a year. If this is a 50% increase on sales the previous year, how many TVs were sold the year before?
	400
4.	Dinesh cycles for four days. On day one, he cycles 1km. Every day, he cycles 10% further than the day before. How far does he cycle for the whole four days?
	$1 + 1.1 + 1.21 + 1.331 = 4.641\text{km}$