

3/03/21

(Starter) O LO: Can I order numbers up to 10,000,000?

(Main) O LO: Can I start to calculate percentages of amounts?

For further guidance on the activities for the lesson today, click the link titled 'Maths - weekly input'.

Starter

Put the numbers below in order from smallest to largest. Feel free to use a place value grid to help you if you need.

- 1,104, 256, 3,719, 3,592, 4,898.
- 23,450, 23,560, 12,377, 42, 876
- 100,000, 212,373, 154,487, 154,321
- 1,104,213, 1,100,312, 999,957, 2,123,123, 2,120,321

Main

Work through the questions finding percentages of amounts below:

- | | | | |
|--------------|---------------|----------------|----------------|
| 1. 10% of 50 | 6. 20% of 140 | 11. 40% of 20 | 16. 60% of 200 |
| 2. 10% of 80 | 7. 30% of 80 | 12. 40% of 10 | 17. 60% of 500 |
| 3. 20% of 60 | 8. 30% of 130 | 13. 40% of 60 | 18. 90% of 130 |
| 4. 20% of 70 | 9. 30% of 30 | 14. 40% of 120 | 19. 70% of 230 |
| 5. 20% of 90 | 10. 30% of 60 | 15. 60% of 30 | 20. 80% of 800 |

21. If Bobby went to the shop and there was a 20% sale. He was going to buy a top for £20.
- How much does Bobby save?
 - What is the new price of the top?
22. If Sarah went to the shop and there was a 10% sale. She was going to buy 7 CDs for £60.
- How much does Sarah save?
 - What is the new price of the CDs?
23. 10% of 400 24. 1% of 400 25. 13% of 400

- | | | | |
|---------------|----------------|----------------|----------------|
| 1. 13% of 500 | 6. 24% of 1400 | 11. 46% of 20 | 16. 68% of 200 |
| 2. 12% of 800 | 7. 32% of 800 | 12. 41% of 10 | 17. 67% of 500 |
| 3. 23% of 600 | 8. 38% of 1300 | 13. 45% of 60 | 18. 99% of 130 |
| 4. 26% of 700 | 9. 31% of 300 | 14. 40% of 120 | 19. 75% of 230 |
| 5. 28% of 900 | 10. 35% of 600 | 15. 65% of 30 | 20. 82% of 800 |

21. If Bobby went to the shop and there was a 25% sale. He was going to buy a top for £22.
- How much does Bobby save?
 - What is the new price of the top?
22. If Sarah went to the shop and there was a 15% sale. She was going to buy 7 CDs for £60.
- How much does Sarah save?
 - What is the new price of the CDs?

Answers Percentage of amount

1. 5	6. 28	11. 8	16. 120
2. 8	7. 24	12. 4	17. 300
3. 12	8. 39	13. 24	18. 117
4. 14	9. 9	14. 48	19. 161
5. 18	10. 18	15. 18	20. 640

21. If Bobby went to the shop and there was a 20% sale. He was going to buy a top for £20.

- How much does Bobby save? £4
- What is the new price of the top? £16

22. If Sarah went to the shop and there was a 10% sale. She was going to buy 7 CDs for £60.

- How much does Sarah save? £6
- What is the new price of the CDs? £52

23. 40

24. 4

25. 52

ANSWERS Percentage of amount

1. 6.5	6. 336	11. 8	16. 136
2. 96	7. 256	12. 4.4	17. 335
3. 138	8. 468	13. 27	18. 128.7
4. 182	9. 33	14. 48	19. 172.5
5. 252	10. 210	15. 18.5	20. 96

21. If Bobby went to the shop and there was a 25% sale. He was going to buy a top for £22.

- How much does Bobby save? £5.50
- What is the new price of the top? £17.50

22. If Sarah went to the shop and there was a 15% sale. She was going to buy 7 CDs for £60.

- How much does Sarah save? £9
- What is the new price of the CDs? **£51**

Extension tasks

Mo says,

To find 10% you divide by
10, so to find 50% you
divide by 50



Do you agree? Explain why.

Eva says to find 1% of a number, you
divide by 100

Whitney says to find 1% of a number, you
divide by 10 and then by 10 again.

Who do you agree with?
Explain your answer.

Complete the missing numbers.

$$50\% \text{ of } 40 = \underline{\quad}\% \text{ of } 80$$

$$\underline{\quad}\% \text{ of } 40 = 1\% \text{ of } 400$$

$$10\% \text{ of } 500 = \underline{\quad}\% \text{ of } 100$$