

Mental addition and subtraction

1. $3002 + 450$

2. $9784 - 704$

3. $4723 + 402$

4. $2538 + 2001$

5. $9826 - 803$

6. $4782 - 502$

7. $3782 + 200$

8. $3782 + 198$

9. $4658 - 100$

10. $4658 - 97$

11. $3478 + 1000$

12. $3478 + 999$

13. $5298 - 1000$

14. $5298 - 999$

15. $4578 + 321$

16. $8734 - 6031$

17. $23,472 - 2222$

18. $45,310 + 3409$

19. $8345 + 397$

20. $7935 - 298$

21. $3458 + 1997$

22. $9768 - 2995$

23. $45,237 + 3900$

24. $57,345 - 2998$

Mental addition and subtraction

1. $3478 + 1000$

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3. $5298 - 1000$

4. $5298 - 999$

5. $8345 + 397$

6. $7935 - 298$

7. $3458 + 1997$

8. $9768 - 2995$

9. $45,237 + 3900$

10. $57,345 - 2998$

11. $7.28 + 1.99$

12. $8.46 + 2.97$

13. $9.38 - 2.01$

14. $9.38 - 1.99$

15. $5.36 + 2.98$

16. $8.27 - 2.95$

17. $8.41 + 1.97$

18. $9.39 - 1.95$

Order of brackets and operations

Solve the following, making sure that you work out the answers to the calculations in brackets first, and then multiplication or division before addition or subtraction.

1. $(20 + 3) \times 10$

2. $20 + 3 \times 10$

3. $20 \times 3 + 10$

4. $20 \times (3 + 10)$

5. $20 \times 3 + 20 \times 10$

6. $(20 - 3) \times (20 + 10)$

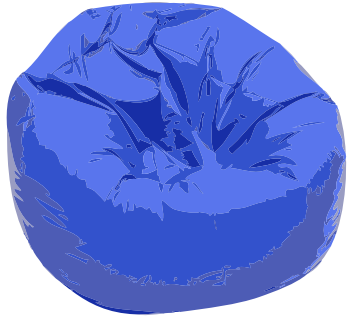
7. $20 - 3 + 20 \div 10$

8. $100 \times 5 + \square = 1000$

9. $\square + 60 \div 2 = 100$

10. $50 + 250 \div \square = 100$

Room make over



Bean bag
£25.79



CD player
£48.67

Duvet set
£35.48

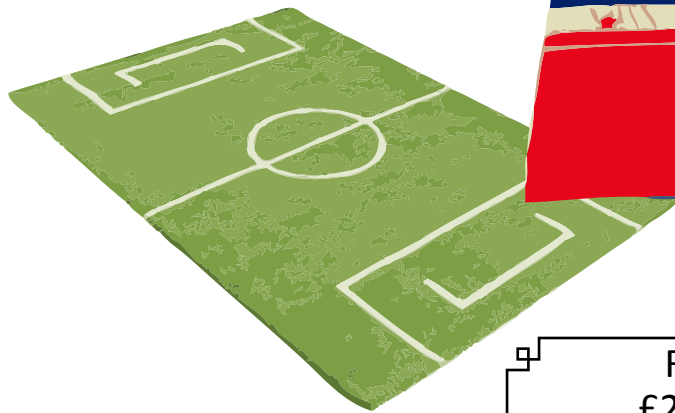


Lamp shade
£14.24

Curtains
£45.25



Rug
£29.49



Tin of paint
£21.99



Estimating differences

Estimate the answers to these subtractions and write them in the correct column:

$$£29.25 - £25.99$$

$$£74.49 - £69.99$$

$$£23.35 - £18.75$$

$$£23.75 - £18.25$$

$$£42.65 - £38.49$$

$$£54.29 - £48.95$$

| <£5 | >£5 |
|-----|-----|
| | |

Then calculate each answer to check. Draw an arrow if a calculation needs to move to another column.

Now write your own two subtractions to go in each column. Each digit must be different in each price.

Word problems

1. Matt the baker has 8 packs of buns. He's baked 40 more and puts these into packs of 4. How many packs does he have now?
2. Sasha the baker has 8 buns left. She bakes 40 more and then puts all the buns into packs of 4. How many packs does she have?
3. Five books priced £11.99 are ordered from an internet site. Postage and packaging costs £3.95 for the total order. What is the total cost?
4. Five books are ordered from an internet site. The original price was £11.99 but they have been discounted by £3 each. The postage and packaging is free. What is the total cost?
5. Zak, his brother and his sister clean their Mum's car. She gives them £7.50 to share equally between them. He also mows the lawn and is given £3.50. How much has Zak earned?
6. The school secretary orders 36 exercise books for 57p each and 36 books for 38p each. How much will the total order cost?

Week 2:

Mental addition and subtraction

- | | | |
|-----------------------------------|---------------------------------------|---------------------------------------|
| 1. $3002 + 450 = \mathbf{3452}$ | 2. $9784 - 704 = \mathbf{9080}$ | 3. $4723 + 402 = \mathbf{5125}$ |
| 4. $2538 + 2001 = \mathbf{4539}$ | 5. $9826 - 803 = \mathbf{9023}$ | 6. $4782 - 502 = \mathbf{4280}$ |
| 7. $3782 + 200 = \mathbf{3982}$ | 8. $3782 + 198 = \mathbf{3980}$ | 9. $4658 - 100 = \mathbf{4558}$ |
| 10. $4658 - 97 = \mathbf{4561}$ | 11. $3478 + 1000 = \mathbf{4478}$ | 12. $3478 + 999 = \mathbf{4477}$ |
| 13. $5298 - 1000 = \mathbf{4298}$ | 14. $5298 - 999 = \mathbf{4299}$ | 15. $4578 + 321 = \mathbf{4899}$ |
| 16. $8734 - 6031 = \mathbf{2703}$ | 17. $23,472 - 2222 = \mathbf{21,250}$ | 18. $45,310 + 3409 = \mathbf{48,719}$ |
| 19. $8345 + 397 = \mathbf{8742}$ | 20. $7935 - 298 = \mathbf{7637}$ | 21. $3458 + 1997 = \mathbf{5455}$ |
| 22. $9768 - 2995 = \mathbf{6773}$ | 23. $45,237 + 3900 = \mathbf{49,137}$ | 24. $57,345 - 2998 = \mathbf{54,347}$ |

Mental addition and subtraction

- | | | |
|---------------------------------------|------------------------------------|--------------------------------------|
| 1. $3478 + 1000 = \mathbf{4478}$ | 2. $3478 + 999 = \mathbf{4477}$ | 3. $5298 - 1000 = \mathbf{4298}$ |
| 4. $5298 - 999 = \mathbf{4299}$ | 5. $8345 + 397 = \mathbf{8742}$ | 6. $7935 - 298 = \mathbf{7637}$ |
| 7. $3458 + 1997 = \mathbf{5455}$ | 8. $9768 - 2995 = \mathbf{6773}$ | 9. $45,237 + 3900 = \mathbf{49,137}$ |
| 10. $57,345 - 2998 = \mathbf{54,347}$ | 11. $7.28 + 1.99 = \mathbf{9.27}$ | 12. $8.46 + 2.97 = \mathbf{11.43}$ |
| 13. $9.38 - 2.01 = \mathbf{7.37}$ | 14. $9.38 - 1.99 = \mathbf{7.39}$ | 15. $5.36 + 2.98 = \mathbf{8.34}$ |
| 16. $8.27 - 2.95 = \mathbf{5.32}$ | 17. $8.41 + 1.97 = \mathbf{10.38}$ | 18. $9.39 - 1.95 = \mathbf{7.44}$ |

Order of brackets and operations

- | | | |
|--|--|---|
| 1. $(20 + 3) \times 10 = \mathbf{230}$ | 2. $20 + 3 \times 10 = \mathbf{50}$ | 3. $20 \times 3 + 10 = \mathbf{70}$ |
| 4. $20 \times (3 + 10) = \mathbf{260}$ | 5. $20 \times 3 + 20 \times 10 = \mathbf{260}$ | 6. $(20 - 3) \times (20 + 10) = \mathbf{510}$ |
| 7. $20 - 3 + 20 \div 10 = \mathbf{19}$ | 8. $100 \times 5 + \mathbf{500} = 1000$ | 9. $\mathbf{70} + 60 \div 2 = 100$ |
| 10. $50 + 250 \div \mathbf{5} = 100$ | | |

Room make over

| Item | Change from £50 | Change from £100 |
|--------------|-----------------|------------------|
| Bean bag | £24.21 | £74.21 |
| CD player | £1.33 | £51.33 |
| Duvet set | £14.52 | £64.52 |
| Lamp shade | £35.76 | £85.76 |
| Curtains | £4.75 | £54.75 |
| Rug | £20.51 | £70.51 |
| Tin of paint | £28.01 | £78.01 |

| Pair of Items | Change from £100 |
|-------------------------|------------------|
| Bean bag and CD player | £25.54 |
| Bean bag and Duvet set | £38.73 |
| Bean bag and Lamp shade | £59.97 |
| Bean bag and Curtains | £28.96 |
| Bean bag and Rug | £44.72 |

| | |
|-----------------------------|--------|
| Bean bag and Tin of paint | £52.22 |
| CD player and Duvet set | £15.85 |
| CD player and Lamp shade | £37.09 |
| CD player and Curtains | £6.08 |
| CD player and Rug | £21.84 |
| CD player and Tin of paint | £29.34 |
| Duvet set and Lamp shade | £50.28 |
| Duvet set and Curtains | £19.27 |
| Duvet set and Rug | £35.03 |
| Duvet set and Tin of paint | £42.53 |
| Lamp shade and Curtains | £40.51 |
| Lamp shade and Rug | £56.27 |
| Lamp shade and Tin of paint | £63.77 |
| Curtains and Rug | £25.26 |
| Curtains and Tin of paint | £32.76 |
| Rug and Tin of paint | £48.52 |

| Trio of items | Change from £100 |
|--------------------------------------|-------------------------|
| Bean bag, CD player & Lamp shade | £11.30 |
| Bean bag, CD player & Tin of paint | £3.55 |
| Bean bag, Duvet set & Lamp shade | £24.49 |
| Bean bag, Duvet set & Rug | £9.24 |
| Bean bag, Duvet set & Tin of paint | £16.74 |
| Bean bag, Lamp shade & Curtains | £14.72 |
| Bean bag, Lamp shade & Rug | £30.48 |
| Bean bag, Lamp shade & Tin of paint | £37.98 |
| Bean bag, Curtains & Tin of paint | £6.97 |
| Bean bag, Rug & Tin of paint | £22.73 |
| CD player, Duvet set & Lamp shade | £1.61 |
| CD player, Lamp shade & Rug | £7.60 |
| CD player, Lamp shade & Tin of paint | £15.10 |
| Duvet set, Lamp shade & Curtains | £5.03 |
| Duvet set, Lamp shade & Rug | £20.79 |
| Duvet set, Lamp shade & Tin of paint | £28.29 |
| Duvet set, Rug & Tin of paint | £13.04 |
| Lamp shade, Curtains & Rug | £11.02 |
| Lamp shade, Curtains & Tin of paint | £18.52 |
| Lamp shade, Rug & Tin of paint | £34.28 |
| Curtains, Rug & Tin of paint | £3.27 |

Estimating differences

| <£5 | >£5 |
|------------------------------------|------------------------------------|
| $£29.25 - £25.99 = \mathbf{£3.26}$ | $£23.75 - £18.25 = \mathbf{£5.50}$ |
| $£74.49 - £69.99 = \mathbf{£4.50}$ | $£54.29 - £48.95 = \mathbf{£5.34}$ |
| $£23.35 - £18.75 = \mathbf{£4.60}$ | |
| $£42.65 - £38.49 = \mathbf{£4.16}$ | |

Word problems

1. Matt has **18** packs of buns now.
2. Sasha has **12** packs of buns.
3. The total cost of the order is **£63.90**.
4. The total cost of the order is **£44.95**.
5. Zak has earned **£6** in total.
6. The total order will cost **£34.20**.