

Year 4: Estimating and checking your answers: answers

Year 4 - Column Addition and Subtraction - Lesson 2.4

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch02-addition-subtraction/estimating-and-checking-your-answers/

Exercise 2D Estimating, inverse operations and missing numbers

Non-calculator

1 Estimate each answer by rounding both numbers to the nearest 100.

(a) $3,482 + 4,617$

Answer: 8,100

(b) $7,940 - 2,318$

Answer: 5,600

(c) $5,286 + 3,714$

Answer: 9,000

(d) $8,503 - 4,279$

Answer: 4,200

2 Now estimate the same four calculations by rounding both numbers to the nearest 1000.

(a) $3,482 + 4,617$

Answer: 8,000

(b) $7,940 - 2,318$

Answer: 6,000

(c) $5,286 + 3,714$

Answer: 9,000

(d) $8,503 - 4,279$

Answer: 5,000

3 Choose the best estimate. Write A, B, C or D.

(a) $6,184 - 2,897$ A 300 B 3,000 C 9,000 D 30,000

Answer: B (3,000)

(b) $3,806 + 4,189$ A 800 B 8,000 C 80,000 D 4,000

Answer: B (8,000)

4 Write an inverse calculation for each one. Work out the answer to the first calculation first.

(a) $4,208 + 1,563 = 5,771$

Answer: $5,771 - 1,563 = 4,208$ (or $5,771 - 4,208 = 1,563$)

(b) $9,020 - 3,475 = 5,545$

Answer: $5,545 + 3,475 = 9,020$

(c) $2,750 + 3,860 = 6,610$

Answer: $6,610 - 3,860 = 2,750$ (or $6,610 - 2,750 = 3,860$)

(d) $6,000 - 1,245 = 4,755$

Answer: $4,755 + 1,245 = 6,000$

5 Use the inverse operation to check each answer. Write "correct" or "wrong". If it is wrong, write the correct answer.

(a) $3,604 + 2,718 = 6,322$

Answer: Correct

(b) $7,005 - 2,864 = 4,241$

Answer: Wrong. The correct answer is 4,141.

(c) $5,190 + 3,844 = 9,034$

Answer: Correct

(d) $8,300 - 4,568 = 3,832$

Answer: Wrong. The correct answer is 3,732.

6 Find the missing number in each sum.

(a) $\boxed{?} + 2,500 = 6,000$

Answer: 3,500

(b) $1,850 + \boxed{?} = 4,000$

Answer: 2,150

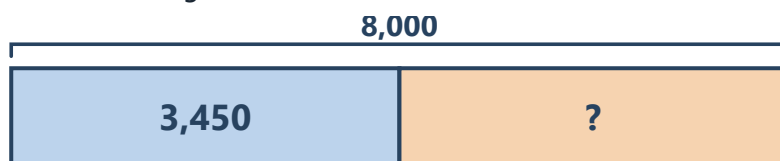
(c) $\boxed{?} - 1,275 = 2,140$

Answer: 3,415

(d) $9,000 - \boxed{?} = 6,785$

Answer: 2,215

7 Use the bar model to find the missing number. $3,450 + ? = 8,000$



Answer: 4,550

8 A shop sells 3,892 apples and 4,127 pears in one week. First estimate how many pieces of fruit the shop sells, by rounding to the nearest 1000. Then work out the exact number.

- (a) Estimate to the nearest 1000

Answer: 8,000

- (b) Exact number

Answer: 8,019

- 9 A stadium has 9,000 seats. On Friday 4,780 tickets are sold. On Saturday 4,390 tickets are sold. Anil says, "We have sold more than 9,000, so there are not enough seats for everyone." Use an estimate, rounding to the nearest 100, to see if Anil could be right. Then check with the exact total.

Answer: Estimate 9,200. Exact total 9,170. Anil is right.

- 10 Mia says that $3,785 + 2,648 = 5,323$. Use an estimate to show that Mia's answer is not sensible. Then find the correct answer.

Answer: No. The estimate is about 6,400. The correct answer is 6,433.

- 11 Zainab estimates $3,640 + 2,580$ by rounding both numbers to the nearest 1000. She gets $4,000 + 3,000 = 7,000$. Will the exact answer be **more than** or **less than** 7,000? Explain how you know.

Answer: Less than 7,000 (the exact answer is 6,220)

- 12 Always, sometimes or never? When you estimate by rounding and then adding, the estimate is exactly the same as the real answer.

Answer: Sometimes

- 13 Two of these numbers add up to 8,000. Which two? 2,870 3,640 4,360 5,250 3,150

Answer: 3,640 and 4,360