

Year 5: Estimating, rounding and checking: answers

Year 5 - 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-5/ch02-addition-subtraction/estimating-rounding-and-checking/

Exercise 2D Estimating, inverse operations and missing numbers

Non-calculator

1 Round each number to the nearest number shown.

(a) 46,382 to the nearest 1,000

Answer: 46,000

(b) 275,490 to the nearest 10,000

Answer: 280,000

(c) 638,251 to the nearest 100,000

Answer: 600,000

(d) 84,950 to the nearest 100

Answer: 85,000

2 Estimate each answer by rounding both numbers to the nearest 1,000.

(a) $48,372 + 29,615$

Answer: 78,000

(b) $63,540 - 21,480$

Answer: 43,000

(c) $71,906 + 38,095$

Answer: 110,000

(d) $95,210 - 47,860$

Answer: 47,000

3 Estimate each answer by rounding both numbers to the nearest 10,000.

(a) $652,480 - 187,950$

Answer: 460,000

(b) $394,200 + 211,800$

Answer: 600,000

(c) $870,450 - 215,600$

Answer: 650,000

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

(a) $61,840 + 28,260$ A 9,000 B 90,000 C 900,000 D 19,000

Answer: B (90,000)

(b) $803,450 - 297,600$ A 50,000 B 500,000 C 5,000,000 D 1,100,000

Answer: B (500,000)

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

(a) $42,080 + 15,365$

Answer: $57,445 - 15,365 = 42,080$ (or $57,445 - 42,080 = 15,365$)

(b) $90,020 - 36,475$

Answer: $53,545 + 36,475 = 90,020$

(c) $275,500 + 386,200$

Answer: $661,700 - 386,200 = 275,500$ (or $661,700 - 275,500 = 386,200$)

(d) $600,000 - 124,500$

Answer: $475,500 + 124,500 = 600,000$

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

(a) $36,404 + 27,918 = 64,322$

Answer: Correct

(b) $70,005 - 28,864 = 41,241$

Answer: Wrong. The correct answer is 41,141.

(c) $51,904 + 38,444 = 90,348$

Answer: Correct

(d) $84,300 - 45,688 = 38,712$

Answer: Wrong. The correct answer is 38,612.

7 Find the missing number in each sum.

(a) $\boxed{?} + 25,000 = 60,000$

Answer: 35,000

(b) $18,500 + \boxed{?} = 40,000$

Answer: 21,500

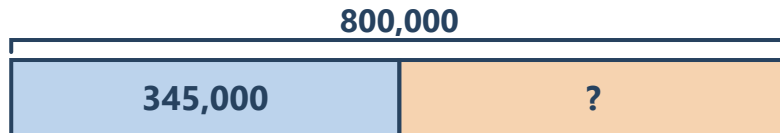
(c) $\boxed{?} - 12,750 = 21,400$

Answer: 34,150

(d) $90,000 - \boxed{?} = 67,850$

Answer: 22,150

8 Use the bar model to find the missing number. $345,000 + ? = 800,000$



Answer: 455,000

- 9 A stadium has 48,372 fans on Saturday and 29,615 fans on Sunday. First estimate how many fans there are altogether by rounding to the nearest 1,000. Then work out the exact number.



- (a) Estimate to the nearest 1,000

Answer: 78,000

- (b) Exact number

Answer: 77,987

- 10 A stadium has 60,000 seats. On Friday 31,480 tickets are sold. On Saturday 30,270 tickets are sold. Anil says, "We have sold more than 60,000, so there are not enough seats." Use an estimate, rounding to the nearest 1,000, to see if Anil could be right. Then check with the exact total.

Answer: Estimate 61,000. Exact total 61,750. Anil is right.

- 11 Mr Khan has £9,000. He wants to buy a sofa for £3,540, a table for £2,560 and a bed for £2,880. He rounds each price to the nearest £1,000 to check. Does Mr Khan have enough money? Explain.

Answer: Yes, there is enough. The exact total is £8,980.

- 12 Mia says that $37,859 + 26,478 = 53,227$. Use an estimate to show that Mia's answer is not sensible. Then find the correct answer.

Answer: No. The estimate is about 64,000. The correct answer is 64,337.

- 13 Zainab estimates $36,640 + 28,580$ by rounding both numbers to the nearest 1,000. She gets 66,000. Without adding, will the exact answer be more than or less than 66,000? Explain how you know.

Answer: Less than 66,000 (the exact answer is 65,220)

- 14 Always, sometimes or never? When you round both numbers to the nearest 1,000 to estimate a subtraction, the estimate is bigger than the exact answer.

Answer: Sometimes

- 15 Choose the best level of accuracy for each: the nearest 100, the nearest 1,000, or no rounding (exact). Explain your choice.

- (a) A newspaper says how many people were at a football match (48,372).

Answer: the nearest 1,000

- (b) A shopkeeper checks that three prices add to exactly the amount on the till.

Answer: no rounding (exact)

- (c) A pilot says how far the plane flew (5,632 km).

Answer: the nearest 100

(d) Aisha checks she has enough for a £48 bill. She has £47.

Answer: no rounding (exact)