

Year 5: Combining operations, the equals sign and multi-step problems: answers

Year 5 - Short Division and Remainders - Lesson 5.7

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/ch05-division/combining-operations-the-equals-sign-and-multi-step-problems/

Exercise 5G Combining operations, the equals sign and multi-step problems Non-calculator

1 Work out each calculation. Remember the order of operations.

(a) $18 + 24 \div 6 =$

Answer: 22

(b) $40 - 36 \div 9 =$

Answer: 36

(c) $7 \times 4 + 56 \div 8 =$

Answer: 35

(d) $60 \div 5 - 3 \times 2 =$

Answer: 6

2 Work out each calculation. Brackets come first.

(a) $(18 + 24) \div 6 =$

Answer: 7

(b) $(40 - 36) \times 9 =$

Answer: 36

(c) $7 \times (4 + 56 \div 8) =$

Answer: 77

(d) $60 \div (5 + 7) =$

Answer: 5

3 Work out each calculation. What do you notice about the answers?

(a) $20 - 8 \div 4 =$

Answer: 18

(b) $(20 - 8) \div 4 =$

Answer: 3

4 Find each missing number.

(a) $48 \div 6 = 2 \times ?$

Answer: 4

(b) $\boxed{?} \div 4 = 72 \div 9$

Answer: 32

(c) $60 \div \boxed{?} = 5 \times 6$

Answer: 2

(d) $36 \div 4 = 5 + \boxed{?}$

Answer: 4

(e) $5 \times 5 = 60 - \boxed{?}$

Answer: 35

(f) $\boxed{?} - 7 = 8 \times 3$

Answer: 31

5 Is each statement true or false? Work out both sides.

(a) $48 \div 6 = 4 \times 2$

Answer: True

(b) $36 \div 4 + 2 = 6 \times 2$

Answer: False

(c) $5 \times 8 = 80 \div 2$

Answer: True

(d) $72 \div 9 = 2 \times 3 + 3$

Answer: False

6 Put one pair of brackets in each calculation to make it true.

(a) $8 + 4 \times 3 = 36$

Answer: $(8 + 4) \times 3$

(b) $48 \div 6 - 2 = 12$

Answer: $48 \div (6 - 2)$

7 Write +, -, × or ÷ in each gap to make the calculation true. Use the order of operations.

(a) $36 \boxed{} 4 \boxed{} 5 = 14$

Answer: $36 \div 4 + 5$

(b) $40 \boxed{} 8 \boxed{} 3 = 8$

Answer: $40 \div 8 + 3$

(c) $24 \boxed{} 6 \boxed{} 2 = 12$

Answer: $24 - 6 \times 2$

8 Work out each answer. Draw a bar model to help.

(a)

A shop has 5 shelves with 36 tins on each shelf. The tins are packed into boxes of 9. How many boxes are needed?

Answer: 20 boxes

(b)

Priya has 250 stickers. She gives 70 to her sister and shares the rest equally between 6 friends. How many stickers does each friend get?

Answer: 30 stickers

(c)

A hall has 8 rows of 45 chairs. 30 chairs are taken away. The rest are put into 5 equal stacks. How many chairs are in each stack?

Answer: 66 chairs

9 A rectangle has an area of 96 cm^2 . Its length is 8 cm. What is its width?

Answer: 12 cm

10 A printer prints 1,260 pages in 7 minutes. It prints the same number of pages each minute. How many pages does it print in 10 minutes?

Answer: 1,800 pages

11 Mei has 200 beads. She makes bracelets with 6 beads each and sells each bracelet for £3. How much money does she get if she sells every bracelet she makes?

Answer: £99

12 Zara says, " $24 + 36 \div 4 = 15$." What mistake has Zara made? What is the correct answer?

Answer: 33. Zara added first; she should divide first.

13 Always, sometimes or never?

(a) Brackets never change the answer to a calculation.

Answer: Sometimes

(b) For a multiple of 6, dividing by 6 gives the same answer as dividing by 2 and then dividing by 3.

Answer: Always

14 Which is the odd one out? Explain how you know. 3×4 $48 \div 4$ $(20 + 4) \div 2$ $20 - 4 \div 2$

Answer: $20 - 4 \div 2$

15 Challenge! Write +, −, × or ÷ in each gap to make the calculation true. Use the order of operations. $24 \quad [] \quad 6$
 $[] \quad 2 \quad [] \quad 5 = 14$

Answer: $24 \div 6 + 2 \times 5$