Name & Surname: _____ Class: _____ Date: _____

Two-Step Winners

Plan it, solve it, check it!

About 40 minutes Level ★★★☆☆

Key words

equation: a number sentence with a letter for the missing number

remainder: what is left over after dividing

reasonable: makes sense for the story

unknown: the number you need to find, shown by a letter

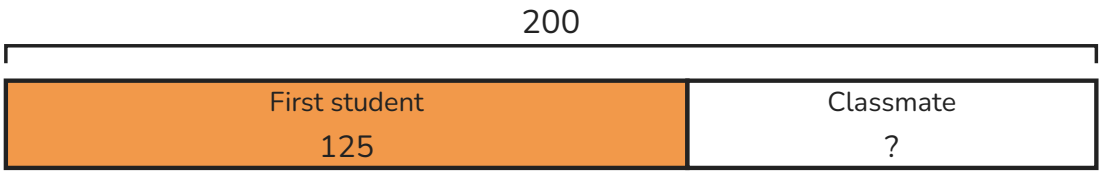
estimate: a close answer found by rounding

Task A

/6

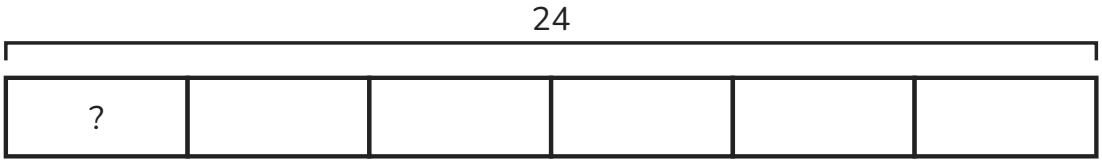
Use each bar to write an equation with a letter.

1 A student saved 125 stickers. A classmate saved some too. Together they saved 200 **stickers**. How many did the classmate save? Let b stand for the unknown.



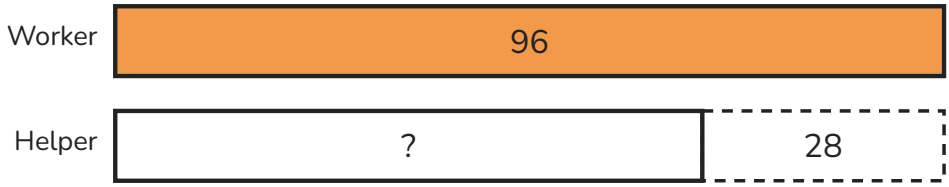
Answer: _____ **stickers**

2 24 pencils are packed equally into 6 **boxes**. How many pencils go in each box? Let p stand for the unknown.



Answer: _____ **pencils**

3 A worker packed 96 boxes. A helper packed 28 **fewer**. How many boxes did the helper pack? Let h stand for the unknown.



Answer: _____ **boxes**

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Practice Two Steps

Add, subtract, multiply and estimate to find unknowns.

Task B

/10

Solve each problem. Write an equation with a letter when asked.

WARM UP

1 Work out 45 + 37 using **mental** math.

Answer: _____

2 Work out 6 × 7 for **equal** groups.

Answer: _____

3 Estimate 58 + 32 by **rounding** each number to the nearest ten.

Answer: _____

PRACTICE

4 A student saved $85. The student spent $23 on a book and $17 on supplies. How many **dollars** are left? Let m stand for dollars left.

Answer: _____

5 Workers set up 5 rows with 8 seats in each **row**. Then 6 extra seats are added. How many seats in total? Let s stand for total seats.

Answer: _____

6 Estimate 196 ÷ 4 by rounding 196 to the nearest **hundred**. What is the estimate?

Answer: _____

PROBLEM SOLVING

7 A worker packs 96 juice boxes into cases of 8 **boxes**. The worker gives 5 cases to a classroom. How many cases are left? Let c stand for cases left.

Answer: _____

8 A student has 4 packs of cards with 10 cards in each **pack**. The student buys 5 more cards. How many cards now? Let t stand for total cards.

Answer: _____

9 A school ordered 250 pencils. The pencils come in boxes of 10 **pencils**. After handing out 18 boxes, how many boxes are left? Let b stand for boxes left.

Answer: _____

10 Explain how you know your answer for the **boxes** question is reasonable. Use estimation.

Answer: _____

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Remainders Make Sense

Divide, interpret leftovers and check for reasonableness.

Task C

/10

Show both steps and tell what any remainder means.

WARM UP

1 Work out 125 − 68 by **subtracting**.

Answer: _____

2 What is the **remainder** when 47 is divided by 5?

Answer: _____

3 Estimate 73 + 28 by **rounding** each number to the nearest ten.

Answer: _____

PRACTICE

4 There are 53 students on a trip. Each van holds 6 **students**. How many vans are needed for all students? Let v stand for vans.

Answer: _____

5 A baker made 100 cookies. The baker fills boxes with 12 **cookies** each and keeps the leftover cookies. How many leftover cookies are kept? Let r stand for remainder.

Answer: _____

6 A student earned $60. The student spends $18 on supplies, then shares the rest equally among 6 **friends**. How many dollars does each friend get for the party? Let d stand for dollars.

Answer: _____

PROBLEM SOLVING

7 A lunchroom has 3 tables with 8 chairs at each **table**. Then 12 more chairs are brought in. How many chairs in total? Let c stand for total chairs.

Answer: _____

8 A student has $30. The student buys 4 markers at $5 each. How much **change** is left? Let m stand for money left.

Answer: _____

9 A teacher has 75 pencils to share equally among 8 **groups**. Each group gets the same whole number. The teacher keeps the remainder. How many pencils does the teacher keep? Let k stand for pencils kept.

Answer: _____

10 Explain how you know 9 **vans** for 53 students is reasonable. Use rounding or estimation.

Answer: _____

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Estimate and Ask

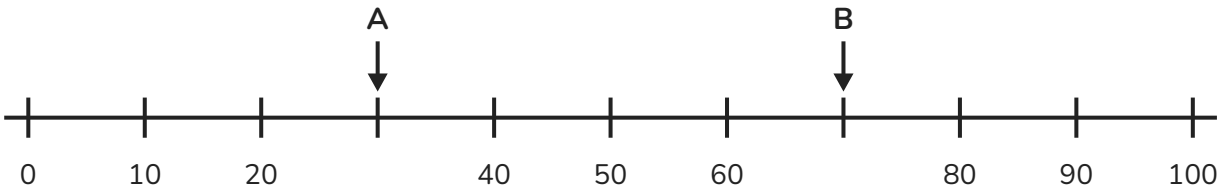
Use number lines to round and invent your own questions.

↑↓ Task D

/6

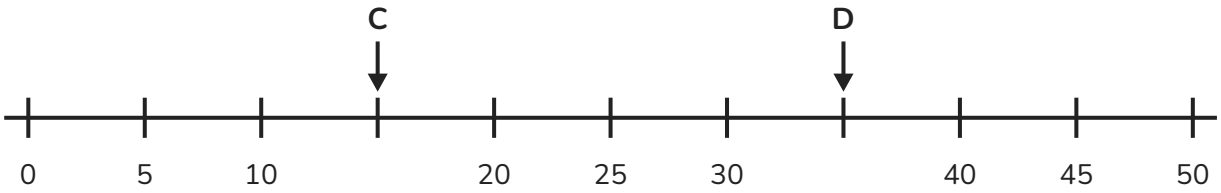
Read the marked values and mark the estimates on the lines.

1



A = ☐ B = ☐ Draw an arrow to show: 50

2



C = ☐ D = ☐ Draw an arrow to show: 40

Task E

The answer is given. Write a two-step question that fits it.

The answer is: **9 vans**

What could the question be?

.....

.....

.....

The answer is: **$8**

What could the question be?

.....

.....

.....

The answer is: **4 cookies**

What could the question be?

.....

.....

.....

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Spot and Solve

Find mistakes and finish the two-step machines.

Task F

/4

Find the wrong step in each piece of work and fix it.



Student A

A student has $20. The student buys 3 packs at $4 each. How much **money** is left?

1. 3 × 4 = 12
2. 12 is the total cost
3. So the answer is $12 left

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

27 students need cars that hold 4 students each. How many **cars** are needed?

1. 27 ÷ 4 = 6 remainder 3
2. There are 3 students left over
3. So 6 cars are enough

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

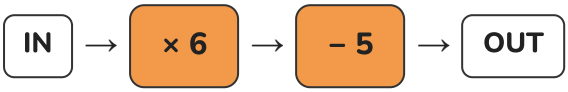
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Two-Step Winners

Task 6

/5

Follow the two steps to find each output and input.



In	Out
4	
7	
10	
	31
	49

How did I do?

Circle a face for each line.

I can solve two-step word problems with whole numbers.

I can write an equation with a letter for the unknown.

I can check answers by estimating and explaining remainders.

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Answer sheet: Two-Step Winners

Task A

1. 75 stickers
2. 4 pencils
3. 68 boxes

Task B

1. 82
2. 42
3. 90
4. m = 45
5. s = 46
6. 50
7. c = 7
8. t = 45
9. b = 7
10. The 25 boxes rounds to about 30, minus about 20 is about 10, so 7 boxes is close and reasonable.

Task C

1. 57
2. 2
3. 100
4. v = 9
5. r = 4
6. d = 7
7. c = 36
8. m = 10
9. k = 3
10. 6 rounds stays 6, 53 is close to 54, and 54 divided by 6 is 9, so 9 vans is reasonable.

Task D

1. A = 30; B = 70; arrows at 50
2. C = 15; D = 35; arrows at 40

Task E

Answers will vary, e.g. 9 vans → 53 students need rides. Each van holds 6 students. How many vans are needed for all students? $8 → A student has $20 and buys 3 notebooks at $4 each. How much change is left? 4 cookies → A baker makes 100 cookies and fills boxes with 12 cookies each. How many leftover cookies are kept?

Task F

1. Step 3 is wrong: They stopped after the first step. They found the cost but did not subtract it from $20. Correct answer: $8
2. Step 3 is wrong: They ignored what the remainder means. The 3 leftover students still need a car, so one more car is needed. Correct answer: 7 cars

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Task G

4 → 19; 7 → 37; 10 → 55; 6 → 31; 9 → 49

Pictures: Characters: Open Peeps by Pablo Stanley (CC0)

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