



Year 4 Mathematics

Solving Word Problems Workshop

Worksheet 29: Single-Step Problems

Name: _____

Date: _____

The CUBES Strategy:

Circle the numbers

Underline the question

Box keywords

Evaluate (plan)

Solve!

Section 1: Fluency - Addition and Subtraction Scenarios

Read carefully and solve each problem.

1. A baker made 350 cupcakes in the morning and 275 in the afternoon. How many did they make in total?

Answer: _____

2. A library has 1,245 books. They receive a donation of 387 new books. How many books does the library have now?

Answer: _____

3. A school has 568 students. 234 students are away sick. How many students are at school?



Answer: _____

4. A shop had 850 apples. They sold 476 apples. How many apples are left?

Answer: _____

5. Emily saved \$145 in January and \$238 in February. How much has she saved altogether?

Answer: _____

6. A farmer has 2,400 eggs. He sells 1,675 eggs at the market. How many eggs does he have left?

Answer: _____

7. There were 425 people at a concert. 189 people left early. How many people stayed?

Answer: _____

8. A toy store received 523 teddy bears and 467 toy cars. How many toys did they receive in total?

Answer: _____



Word Problem Wizard!



Why did the math book look sad?

Because it had too many problems!





Section 2: Reasoning - Choosing the Operation

Decide which operation to use and explain your thinking.

9. If a pack of stickers has 8 stickers and I buy 12 packs, should I add or multiply to find the total? Why?

Answer: _____

10. Solve Question 9. How many stickers in total?

Answer: _____

11. A recipe needs 6 eggs. If I want to make 7 batches, which operation do I use?

Answer: _____

12. Calculate: How many eggs do I need for 7 batches?

Answer: _____

13. A box of chocolates has 24 pieces. If I eat 9, which operation finds how many are left?

Answer: _____

14. There are 5 shelves with 15 books on each shelf. Which operation finds the total number of books?

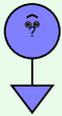


Answer: _____

15. Calculate the total from Question 14.

Answer: _____

Strategy Star!



Why was the operation so popular?

Because everyone wanted to know which one to use!





Section 3: Fluency - Sharing and Grouping

Solve division word problems.

16. 48 students are split into 4 equal teams for sport. How many students are in each team?

Answer: _____

17. A farmer has 72 apples to pack into boxes of 8. How many boxes can he fill?

Answer: _____

18. 56 pencils are shared equally among 7 students. How many pencils does each student get?

Answer: _____

19. A baker makes 90 cupcakes and puts them into packs of 6. How many packs does she make?

Answer: _____

20. 64 books are arranged equally on 8 shelves. How many books are on each shelf?

Answer: _____

21. A rope that is 81 metres long is cut into 9 equal pieces. How long is each



piece?

Answer: _____

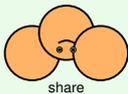
22. 100 marbles are shared equally between 5 friends. How many marbles does each friend receive?

Answer: _____

23. A school has 96 students going on an excursion. Each bus holds 12 students. How many buses are needed?

Answer: _____

Problem Solving Pro!



Why did the student wear glasses during the word problem?

To help with his 'division'!

Great work! You're a problem-solving champion!



Answer Key

Worksheet 29: Single-Step Problems

Section 1: Fluency - Addition and Subtraction Scenarios

1. Answer: **625 cupcakes**

Working:

$$350 + 275 = 625$$

2. Answer: **1,632 books**

Working:

$$1,245 + 387 = 1,632$$

3. Answer: **334 students**

Working:

$$568 - 234 = 334$$

4. Answer: **374 apples**

Working:

$$850 - 476 = 374$$

5. Answer: **\$383**

Working:

$$\$145 + \$238 = \$383$$

6. Answer: **725 eggs**

Working:

$$2,400 - 1,675 = 725$$

7. Answer: **236 people**

Working:

$$425 - 189 = 236$$

8. Answer: **990 toys**



Working:

$$523 + 467 = 990$$

Section 2: Reasoning - Choosing the Operation

9. Answer: **Multiply, because we have equal groups (12 groups of 8)**

10. Answer: **96 stickers**

Working:

$$8 \times 12 = 96$$

11. Answer: **Multiplication** (7 groups of 6)

12. Answer: **42 eggs**

Working:

$$6 \times 7 = 42$$

13. Answer: **Subtraction** (taking away from the original amount)

14. Answer: **Multiplication** (5 groups of 15)

15. Answer: **75 books**

Working:

$$5 \times 15 = 75$$

Section 3: Fluency - Sharing and Grouping

16. Answer: **12 students per team**

Working:

$$48 \div 4 = 12$$

17. Answer: **9 boxes**

Working:

$$72 \div 8 = 9$$

18. Answer: **8 pencils each**



Working:

$$56 \div 7 = 8$$

19. Answer: 15 packs

Working:

$$90 \div 6 = 15$$

20. Answer: 8 books per shelf

Working:

$$64 \div 8 = 8$$

21. Answer: 9 metres each

Working:

$$81 \div 9 = 9$$

22. Answer: 20 marbles each

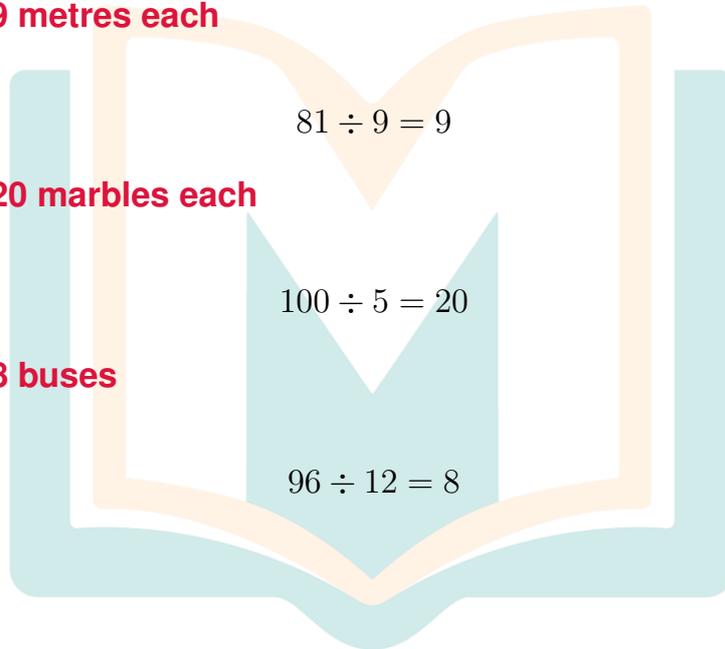
Working:

$$100 \div 5 = 20$$

23. Answer: 8 buses

Working:

$$96 \div 12 = 8$$





Year 4 Mathematics

Solving Word Problems Workshop

Worksheet 30: Multi-Step & Financial Problems

Name: _____

Date: _____

Section 1: Fluency - Two-Step Problems

These problems need more than one operation to solve.

1. Liam has \$50. He buys a book for \$15 and a toy for \$12. How much money does he have left?

Working:

Answer: _____

2. A shop has 240 apples. They sell 85 in the morning and 67 in the afternoon. How many apples are left?

Answer: _____

3. Emma buys 3 notebooks at \$4 each and a pen for \$2. What is the total cost?

Answer: _____

4. A baker makes 8 trays of cupcakes with 12 cupcakes on each tray. She sells 45 cupcakes. How many are left?



Answer: _____

5. Jack has 120 marbles. He gives 15 to his brother and shares the rest equally among 5 friends. How many does each friend get?

Answer: _____

6. A farmer has 150 eggs. She packs them into boxes of 6. If she sells 18 boxes, how many boxes does she have left?

Answer: _____

7. Sophie buys 4 books at \$8 each. She pays with two \$20 notes. How much change does she get?

Answer: _____

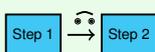
8. A class has 28 students. 5 students are absent. The remaining students work in groups of 4. How many groups are there?

Answer: _____

Two-Step Champion!

Why did the two-step problem go to the gym?

To work on its multiple operations!





Section 2: Problem Solving - Practical Situations

Solve real-world problems involving time and money.

9. A movie starts at 2:15 pm and lasts for 95 minutes. What time does it finish?

Answer: _____

10. A train journey takes 125 minutes. If the train leaves at 10:30 am, what time does it arrive?

Answer: _____

11. A shop opens at 9:00 am and closes at 5:30 pm. How many hours is it open?

Answer: _____

12. Sarah has \$100. She spends \$23 on groceries, \$15 on petrol, and \$8 on a magazine. How much does she have left?

Answer: _____

13. A parking meter costs \$3 per hour. How much does it cost to park for 5 hours?

Answer: _____

14. A family of 4 goes to the movies. Tickets cost \$12 each and they buy 2



popcorns at \$6 each. What is the total cost?

Answer: _____

15. A library charges 50 cents per day for overdue books. If a book is 8 days overdue, how much is the fine?

Answer: _____

Real-World Genius!



time

*Why did the clock go to the principal's office?
For tocking too much during word problems!*



Section 3: Challenge - Interpreting Results

Think carefully about remainders and what they mean!

16. A bus holds 30 people. If 100 people want to go on a trip, how many buses are needed? (Think about the remainder!)

Answer: _____

17. A baker has 85 cupcakes. She packs them into boxes of 6. How many full boxes can she make? How many cupcakes are left over?

Answer: _____

18. A rope is 50 metres long. It is cut into pieces that are 7 metres each. How many complete pieces can be cut?

Answer: _____

19. 53 students need to be transported in vans that hold 8 students each. How many vans are needed?

Answer: _____

20. A shop sells pencils in packs of 5. If you need 28 pencils, how many packs must you buy?



Answer: _____

21. 74 books are arranged on shelves that hold 9 books each. How many shelves are completely filled?

Answer: _____

22. A pizza is cut into 8 slices. If 25 people each want a slice, how many pizzas are needed?

Answer: _____

23. A farmer collects 167 eggs. Egg cartons hold 12 eggs. How many cartons can be completely filled? How many eggs are left over?

Answer: _____

Remainder Rockstar!



Why did the remainder feel left out?

Because it couldn't fit into the division party!

Amazing! You're a mathematical modelling master!



Answer Key

Worksheet 30: Multi-Step & Financial Problems

Section 1: Fluency - Two-Step Problems

1. Answer: **\$23**

Working:

$$\$15 + \$12 = \$27$$

, then

$$\$50 - \$27 = \$23$$

2. Answer: **88 apples**

Working:

$$85 + 67 = 152$$

, then

$$240 - 152 = 88$$

3. Answer: **\$14**

Working:

$$3 \times \$4 = \$12$$

, then

$$\$12 + \$2 = \$14$$

4. Answer: **51 cupcakes**

Working:

$$8 \times 12 = 96$$

, then

$$96 - 45 = 51$$

5. Answer: **21 marbles each**

Working:

$$120 - 15 = 105$$



, then

$$105 \div 5 = 21$$

6. Answer: 7 boxes

Working:

$$150 \div 6 = 25$$

boxes, then

$$25 - 18 = 7$$

7. Answer: \$8

Working:

$$4 \times \$8 = \$32$$

, then

$$\$40 - \$32 = \$8$$

8. Answer: 5 groups (with 3 students left over)

Working:

$$28 - 5 = 23$$

, then

$$23 \div 4 = 5$$

remainder 3

Section 2: Problem Solving - Practical Situations

9. Answer: 3:50 pm

Working: $2:15 \text{ pm} + 95 \text{ minutes} = 2:15 \text{ pm} + 1 \text{ hour } 35 \text{ minutes} = 3:50 \text{ pm}$

10. Answer: 12:35 pm

Working: $10:30 \text{ am} + 125 \text{ minutes} = 10:30 \text{ am} + 2 \text{ hours } 5 \text{ minutes} = 12:35 \text{ pm}$

11. Answer: 8 hours 30 minutes or 8.5 hours

12. Answer: \$54



Working:

$$\$23 + \$15 + \$8 = \$46$$

, then

$$\$100 - \$46 = \$54$$

13. Answer: \$15

Working:

$$\$3 \times 5 = \$15$$

14. Answer: \$60

Working:

$$4 \times \$12 = \$48$$

,

$$2 \times \$6 = \$12$$

, then

$$\$48 + \$12 = \$60$$

15. Answer: \$4.00

Working:

$$8 \times \$0.50 = \$4.00$$

Section 3: Challenge - Interpreting Results

16. Answer: 4 buses

Working:

$$100 \div 30 = 3$$

remainder 10, so need 4 buses (can't leave 10 people behind)

17. Answer: 14 full boxes, with 1 cupcake left over

Working:

$$85 \div 6 = 14$$

R 1

18. Answer: 7 complete pieces



Working:

$$50 \div 7 = 7$$

R 1

19. Answer: 7 vans

Working:

$$53 \div 8 = 6$$

R 5, so need 7 vans

20. Answer: 6 packs

Working:

$$28 \div 5 = 5$$

R 3, so need 6 packs (can't buy part of a pack)

21. Answer: 8 shelves completely filled

Working:

$$74 \div 9 = 8$$

R 2

22. Answer: 4 pizzas

Working:

$$25 \div 8 = 3$$

R 1, so need 4 pizzas

23. Answer: 13 cartons filled, with 11 eggs left over

Working:

$$167 \div 12 = 13$$

R 11

Congratulations!

You are now a Word Problem Master!

Keep solving problems like a champion!