Worksheet 5

Year 3 Mathematics — Australian Curriculum v9.0
Subtopic: Additive Strategies for 2- and 3-digit Numbers
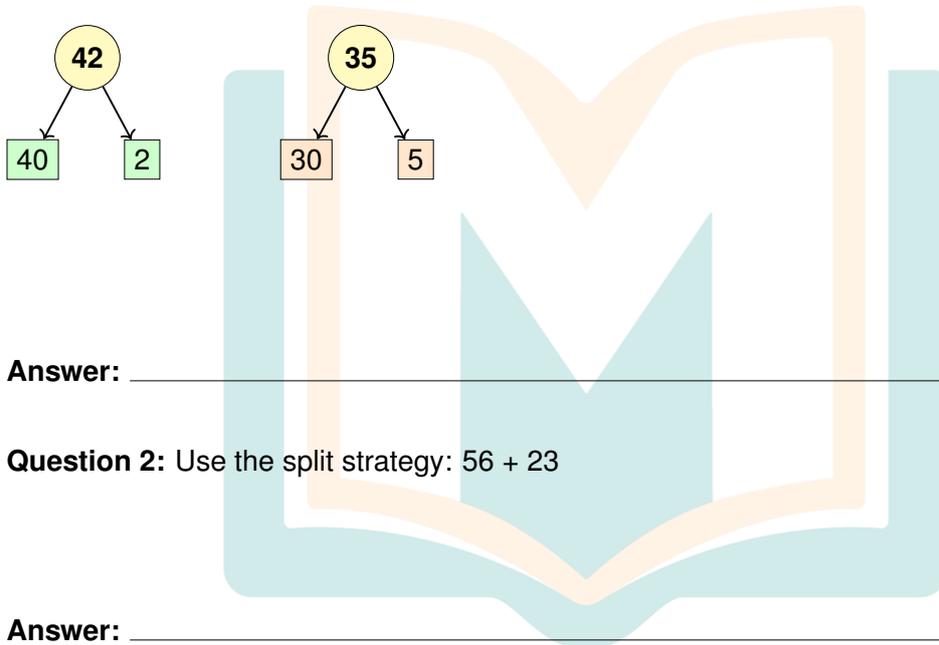
Name: _____   **Date:** _____

Score: _____ / 30

Section 1: Fluency — Visual Split Strategy (Questions 1–10)

Instructions: Use the split strategy to add these numbers. Show your working.

Question 1: Split these numbers to add them: 42 + 35

Answer: _____

Question 2: Use the split strategy: 56 + 23

Answer: _____

Question 3: Split and add: 34 + 41

Answer: _____

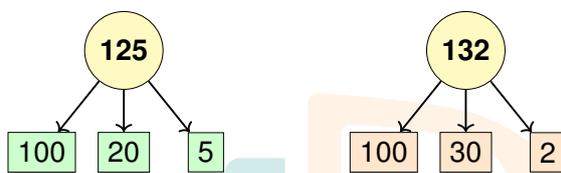**Question 4:** Use the split strategy: 67 + 22

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Answer: _____

Question 5: Split and add: 81 + 14

Answer: _____

Question 6: Use the split strategy: 125 + 132

125 → 100 20 5

132 → 100 30 2

Answer: _____

Question 7: Split and add: 243 + 134

Answer: _____

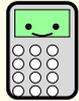**Question 8:** Use the split strategy: 156 + 221

Answer: _____

Question 9: Split and add: 312 + 145

Answer: _____

Question 10: Use the split strategy: 428 + 251

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Answer: _____

🖩 **Good Job!**

Why was 6 afraid of 7? Because 7, 8, 9!

Section 2: Reasoning — Word Problems (Questions 11–20)

Instructions: Solve these word problems using the split strategy. Show your working.

Question 11: Sarah collects 124 stickers. Ben gives her 132 more. Use the split strategy to find the total.

Answer: _____

Question 12: A library has 235 fiction books and 142 non-fiction books. How many books does it have altogether?

Answer: _____

Question 13: Tom scored 156 points in a game. His sister scored 231 points. What is their combined score?

Answer: _____

Question 14: A farm has 245 sheep in one paddock and 134 sheep in another. How many sheep are there in total?

Answer: _____

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Question 15: Emma walked 67 metres to school and 82 metres to the park. What is the total distance she walked?

Answer: _____

Question 16: A bakery sold 123 bread rolls on Monday and 145 bread rolls on Tuesday. How many rolls were sold altogether?

Answer: _____

Question 17: Josh has 78 trading cards. His friend gives him 51 more. How many trading cards does Josh have now?

Answer: _____

Question 18: A school raised 312 dollars in Term 1 and 267 dollars in Term 2. What is the total amount raised?

Answer: _____

Question 19: There are 189 boys and 176 girls at a sports carnival. How many children attended?

Answer: _____

Question 20: A store sold 234 ice creams on Saturday and 145 ice creams on Sunday. What was the total number of ice creams sold?

Answer: _____

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Section 3: Challenge — Missing Numbers (Questions 21–30)

Instructions: Fill in the missing numbers using the split strategy.

Question 21: $45 + 32 = (40 + ?) + (5 + 2)$. What is the missing number?

Answer: _____

Question 22: $56 + 23 = (? + 20) + (6 + 3)$. What is the missing number?

Answer: _____

Question 23: $78 + 21 = (70 + ?) + (8 + ?)$. What are the missing numbers?

Answer: _____

Question 24: $134 + 245 = (100 + 200) + (? + 40) + (4 + 5)$. What is the missing number?

Answer: _____

Question 25: $267 + 132 = (200 + ?) + (60 + 30) + (7 + 2)$. What is the missing number?

Answer: _____

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Question 26: 89 + 47 = (80 + 40) + (? + 7). What is the missing number?

Answer: _____

Question 27: 345 + 124 = (? + 100) + (40 + 20) + (5 + 4). What is the missing number?

Answer: _____

Question 28: 456 + 231 = (400 + 200) + (50 + ?) + (6 + 1). What is the missing number?

Answer: _____

Question 29: 567 + 142 = (500 + ?) + (60 + 40) + (7 + 2). What is the missing number?

Answer: _____

Question 30: 89 + 56 = (? + 50) + (9 + 6). What is the missing number?

Answer: _____

Good Job!

Why do mathematicians love parks? Because of all the natural logs!

Excellent Work! You've completed Worksheet 5!

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Answer Key — Worksheet 5

Year 3 Mathematics

Section 1: Fluency
1. 77 (40+30=70, 2+5=7)
2. 79 (50+20=70, 6+3=9)
3. 75 (30+40=70, 4+1=5)
4. 89 (60+20=80, 7+2=9)
5. 95 (80+10=90, 1+4=5)
6. 257 (100+100=200, 20+30=50, 5+2=7)
7. 377 (200+100=300, 40+30=70, 3+4=7)
8. 377 (100+200=300, 50+20=70, 6+1=7)
9. 457 (300+100=400, 10+40=50, 2+5=7)
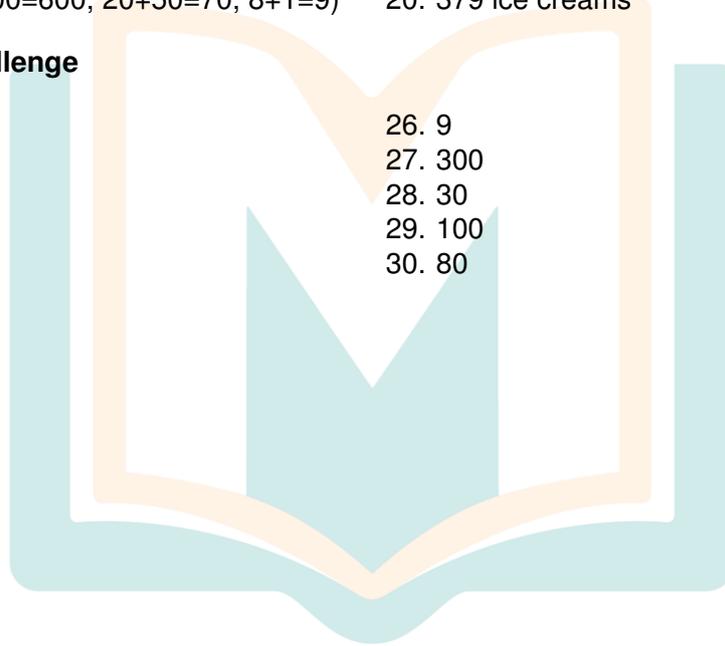10. 679 (400+200=600, 20+50=70, 8+1=9)

Section 2: Reasoning
11. 256 stickers
12. 377 books
13. 387 points
14. 379 sheep
15. 149 metres
16. 268 rolls
17. 129 cards
18. 579 dollars
19. 365 children
20. 379 ice creams

Section 3: Challenge

21. 30
22. 50
23. 20 and 1
24. 30
25. 100

26. 9
27. 300
28. 30
29. 100
30. 80

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Worksheet 6

Year 3 Mathematics — Australian Curriculum v9.0
Subtopic: Additive Strategies for 2- and 3-digit Numbers
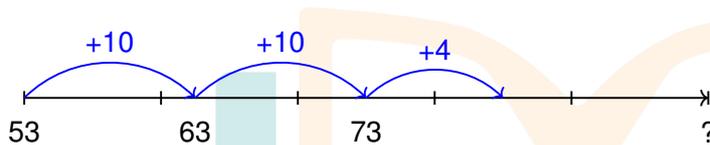
Name: _____   **Date:** _____

Score: _____ / 30

Section 1: Fluency — Visual Number Lines (Questions 1–10)

Instructions: Use the jump strategy on the number line to add these numbers.
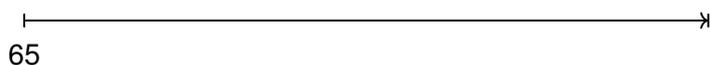
Question 1: Show 53 + 24 on the number line.

+10   +10   +4

53   63   73   ?

Answer: _____

Question 2: Use the jump strategy: 47 + 32

47   ?

Answer: _____

Question 3: Show 65 + 23 on the number line.

65

Answer: _____

Question 4: Use the jump strategy: 82 + 15

8

Answer: _____

Question 5: Show 34 + 45 on the number line.

Answer: _____

Question 6: Use the jump strategy: 126 + 132

126   226   256   ?
+100   +30   +2
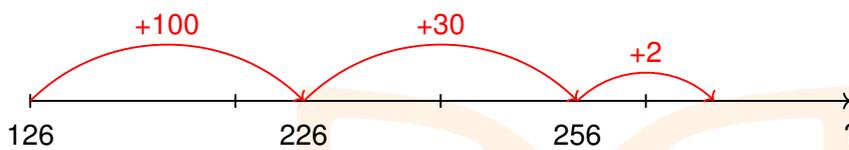
Answer: _____

Question 7: Use the jump strategy: 245 + 134

Answer: _____

Question 8: Show 178 + 121 on the number line.

Answer: _____

Question 9: Use the jump strategy: 234 + 152

Answer: _____

Question 10: Show 367 + 122 on the number line.

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Answer: _____

> 😊 **Good Job!**
>
> What do you call friends who love maths? Algebros!

Section 2: Reasoning — Comparison (Questions 11–20)

Instructions: Answer these questions about the jump strategy.

Question 11: Tom used the jump strategy to add 230 + 150. He made 1 jump of 100 and 5 jumps of 10. Did he do it correctly? Explain.

Answer: _____

Question 12: Lisa wants to add 145 + 123. She decides to jump +100, then +20, then +3. Is this a good strategy?

Answer: _____

Question 13: Which is easier using the jump strategy: 56 + 30 or 56 + 34? Explain why.

Answer: _____

Question 14: Marcus adds 67 + 42 by jumping +40, then +2. What answer does he get?

Answer: _____

Question 15: Emma adds 234 + 125. She jumps +100, +20, then +5. Is Emma correct? What is her answer?

Answer: _____

Question 16: Jake adds 78 + 31. He makes 3 jumps of 10, then 1 jump of 1. Show his jumps on a number line and find his answer.

Answer: _____

Question 17: Sophie uses the jump strategy for 156 + 132. How many jumps would she need to make if she jumps by hundreds first, then tens, then ones?

Answer: _____

Question 18: Which strategy would you use for 245 + 134: split or jump? Explain your choice.

Answer: _____

Question 19: Ben adds 89 + 45 using jumps of +40, +5. What is Ben's answer?

Answer: _____

Question 20: If you jump from 167 by +100, +20, +3, what number do you land on?

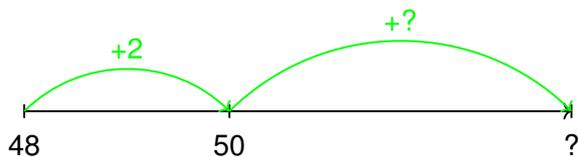**Answer:** _____

Good Job!

Why did the student eat their maths homework? Because the teacher said it was a piece of cake!

Section 3: Challenge — Bridging the Decade (Questions 21–30)

Instructions: Use the jump strategy, bridging to the nearest ten first.

Question 21: Use the jump strategy for 48 + 7 (Bridge to 50 first).

+2   +?

48   50   ?

Answer: _____

Question 22: Bridge the decade: 37 + 8 (Bridge to 40 first).

Answer: _____

Question 23: Use bridging for 56 + 9 (Bridge to 60 first).

Answer: _____

Question 24: Bridge the decade: 29 + 6 (Bridge to 30 first).

Answer: _____

Question 25: Use bridging for 78 + 5 (Bridge to 80 first).

Answer: _____

Question 26: Bridge the decade: 64 + 8 (Bridge to 70 first).

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Answer: _____

Question 27: Use bridging for 87 + 9 (Bridge to 90 first).

Answer: _____

Question 28: Bridge the decade: 45 + 7 (Bridge to 50 first).

Answer: _____

Question 29: Use bridging for 73 + 9 (Bridge to 80 first).

Answer: _____

Question 30: Bridge the decade: 58 + 6 (Bridge to 60 first).

Answer: _____

Good Job!

What did the calculator say to the student? You can count on me!

Fantastic! You've completed Worksheet 6!

Answer Key — Worksheet 6

Year 3 Mathematics

Section 1: Fluency

1. 77 (53+10=63, 63+10=73, 73+4=77)
2. 79 (47+30=77, 77+2=79)
3. 88 (65+20=85, 85+3=88)
4. 97 (82+10=92, 92+5=97)
5. 79 (34+40=74, 74+5=79)
6. 258 (126+100=226, 226+30=256, 256+2=258)
7. 379 (245+100=345, 345+30=375, 375+4=379)
8. 299 (178+100=278, 278+20=298, 298+1=299)
9. 386 (234+100=334, 334+50=384, 384+2=386)
10. 489 (367+100=467, 467+20=487, 487+2=489)

Section 2: Reasoning

11. Yes, correct (230+100=330, +10+10+10+10+10=380)
12. Yes, good strategy
13. 56+30 is easier (one jump of 30 vs. jump 30 then 4)
14. 109
15. Yes, 359
16. 109 (78+10+10+10+1=109)
17. 4 jumps (1 hundred, 3 tens, 2 ones)
18. Either strategy works (Accept reasonable explanations)
19. 134
20. 290

Section 3: Challenge

21. 55 (48+2=50, 50+5=55)
22. 45 (37+3=40, 40+5=45)
23. 65 (56+4=60, 60+5=65)
24. 35 (29+1=30, 30+5=35)
25. 83 (78+2=80, 80+3=83)
26. 72 (64+6=70, 70+2=72)
27. 96 (87+3=90, 90+6=96)
28. 52 (45+5=50, 50+2=52)
29. 82 (73+7=80, 80+2=82)
30. 64 (58+2=60, 60+4=64)

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