

Student Activity Book

The King's Gold Pieces (SAB p. 467)

*10 more gold pieces; strategies will vary. Possible strategy: I used the 100 Chart. I looked for 29 and 39 was straight below one row, so I knew that 39 is 10 more than 29.

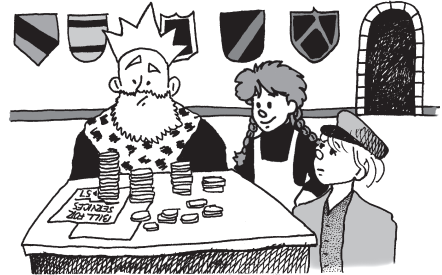
Skip Counting by Dimes (SAB pp. 469–470)
Questions 1–7

1. 35¢; $15¢ + 20¢ = 35¢$
2. 67¢; $37¢ + 30¢ = 67¢$
3. 56¢; $16¢ + 40¢ = 56¢$
4. 41¢; $11¢ + 30¢ = 41¢$
5. 63¢; $23¢ + 40¢ = 63¢$
6. 48¢; $28¢ + 20¢ = 48¢$
7. 72¢; $40¢ + 32¢ = 72¢$

Name _____ Date _____

The King's Gold Pieces

Jack and Tess went to town. They found the king sitting in his counting house scratching his head. The king said, "Can you help me? I have 29 gold pieces, but I need to pay the army 39 gold pieces. I can't figure out how many more gold pieces I need."



Show your work here.

The king needs _____ more gold pieces.

What strategy did you use?

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Name _____ Date _____

Skip Counting by Dimes

Use your 100 Chart or ten frames to find the total amount of money. Use labels. The first is done for you.

1. _____ c

Number sentence $15¢ + 20¢ = 35¢$

2. _____ c

Number sentence _____

3. _____ c

Number sentence _____

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* Answers and/or discussion are included in the lesson.

Name _____ Date _____

4. _____ c

Number sentence _____

5. _____ c

Number sentence _____

6. _____ c

Number sentence _____

7. _____ c

Number sentence _____

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Answer Key • Lesson 4: Patterns in Addition and Subtraction

Name _____ Date _____

Add and Subtract with Rule Machines

1.

Rule: Add 10		
Input	Output	Number Sentence
22		
14		
3		
39		
46		
27		
31		

2.

Rule: Add 5		
Input	Output	Number Sentence
6		
16		
26		
36		
46		
56		
66		

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Patterns in Addition and Subtraction SAB • Grade 1 • Unit 14 • Lesson 4 471

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Add and Subtract with Rule Machines (SAB pp. 471–472) Questions 1–4

1.*

Rule: Add 10		
Input	Output	Number Sentence
22	32	$22 + 10 = 32$
14	24	$14 + 10 = 24$
3	13	$3 + 10 = 13$
39	49	$39 + 10 = 49$
46	56	$46 + 10 = 56$
27	37	$27 + 10 = 37$
31	41	$31 + 10 = 41$

2.*

Rule: Add 5		
Input	Output	Number Sentence
6	11	$6 + 5 = 11$
16	21	$16 + 5 = 21$
26	31	$26 + 5 = 31$
36	41	$36 + 5 = 41$
46	51	$46 + 5 = 51$
56	61	$56 + 5 = 61$
66	71	$66 + 5 = 71$

3.*

Rule: Subtract 2		
Input	Output	Number Sentence
27	25	$27 - 2 = 25$
39	37	$39 - 2 = 37$
14	12	$14 - 2 = 12$
45	43	$45 - 2 = 43$
10	8	$10 - 2 = 8$
36	34	$36 - 2 = 34$
30	28	$30 - 2 = 28$

4.*

Rule: Subtract 4		
Input	Output	Number Sentence
6	2	$6 - 4 = 2$
16	12	$16 - 4 = 12$
26	22	$26 - 4 = 22$
36	32	$36 - 4 = 32$
46	42	$46 - 4 = 42$
56	52	$56 - 4 = 52$
66	62	$66 - 4 = 62$

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Name _____ Date _____

3.

Rule: Subtract 2		
Input	Output	Number Sentence
27		
39		
14		
45		
10		
36		
30		

4.

Rule: Subtract 4		
Input	Output	Number Sentence
6		
16		
26		
36		
46		
56		
66		

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* Answers and/or discussion are included in the lesson.

**Find Patterns in Rule Machines (SAB p. 473)
Questions 1–3**

1.

Rule: Add 5		
Input	Output	Number Sentence
3	8	$3 + 5 = 8$
23	28	$23 + 5 = 28$
33	38	$33 + 5 = 38$
43	48	$43 + 5 = 48$
53	58	$53 + 5 = 58$
63	68	$63 + 5 = 68$
73	78	$73 + 5 = 78$

2. Responses will vary. Possible response: All the numbers end with 8.
3. $3 + 5 = 8$

Name _____ Date _____

Find Patterns in Rule Machines

Fill in the output column and write a number sentence for each input.

1.

Rule: Add 5		
Input	Output	Number Sentence
3		
23		
33		
43		
53		
63		
73		

2. What pattern do you see in the output column?

3. What addition fact helped you find the output?

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Name _____ Date _____

Find Patterns in Rule Machines Feedback Box	Expect-ation	Check In	Comments
Represent addition problems with number sentences.	E1		
Use mental math strategies to solve addition problems with larger numbers.	E4		
Identify and describe patterns represented in a rule machine.	E6		

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