Answer Key • Lesson 7: Addition and Subtraction: Practice and Estimation

Addition and Subtraction: Practice and Estimation					
Discuss					
Dime Store Problems					
Art's Dime Store is a favorite place fo anything a third grader would want, a friendly to kids.	r many third graders. It and the people who work	has almost k there are			
The Parent Club gave Ms. Alfonso's c classroom. The students looked at Ar items and their prices:	class \$75 to buy materia t's website and found th	lls for their ne following			
Ms. Alfonso divided the class into	Price Lis	t			
three groups. Each group made a	Item	Price			
They estimated to see if they had		1100			
enough money for all the items	Electronic Journal	\$29			
they chose.	Butterny Garden	\$19			
4 Deside if each means made	Weather Station Kit	\$25			
 Decide if each group made a good estimate. Use a few 	Shark Model Kit	\$13			
guick notes or your number	Flying Bat Model	\$14			
line to make your	Ant Farm	\$11			
decisions. Be ready to	Pottery Wheel	\$38			
 A. Group A chose the Insect Hard 	abitat, Weather Station K	it, and Pottery			
Wheel.					
B. Group B chose the Electror Weather Station Kit.	nic Journal, Butterfly Ga	rden, and			
	y Garden, Flying Bat Mo	odel, Shark			
C. Group C chose the Butterfly					

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

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Addition and Subtraction: Practice and Estimation (SG pp. 184–186) Questions 1–8

- **I. A.*** Answers will vary. Group A selected items that went over budget.
 - **B.*** Responses will vary. Possible response: Group B made good selections. They spent most of the money without going over the \$75 budget.
 - **C.*** Responses will vary. Possible response: Group C stayed under budget but did not spend all most of the money. \$19 + \$14 + \$13 +\$11 is about \$60. With the choices they made, they could not choose any different items but may have chosen to buy two of the same item to spend more of the money.
- 2. Answers will vary. Students should try to spend as much of the \$75 as possible without going over. One possible response:
 - A. Shark Model Kit, Flying Bat Model, Weather Station Kit, and Insect Habitat
 - **B.** \$72
 - **C.** \$3
 - **D**. The Shark Model Kit was \$13 and the Flying Bat Model is \$14. Both \$13 and \$14 are close to \$15, so first I added 15 + 15 to get 30. I added the prices for the Insect Habitat and the Weather Station Kit in my head and got \$20 + \$25 = \$45. Then I added the \$30 to that by counting up by tens, \$45, \$55, \$65, \$75, so I know my answer is reasonable.
- **3. A.** 8014 pieces of penny candy
 - **B.** Student strategies will vary. One possible strategy to check for reasonableness is to round both numbers to get an estimate. January 2000 February +6000 8000 pieces
- **4. A.*** 3226 more pieces of candy
 - **B.*** Student strategies will vary. Students may choose to use addition to check their answer. 3226 + 2394 = 5620

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- **5.*** Answers will vary. One possible response is about 8000 pieces of candy.
- 6. Answers will vary.
- 7. A. Possible response: Art had more goldfish. I used estimation to find the answer. First, I looked at the number of fish that were sold and the number that died to see about how many left the store. I rounded 462 to 460 to show the number sold and 81 to 80 to show the number that died. Then I added 460 + 80 = 540. Since 540 is less than the number he started with but he also got 603 new fish, I knew he had more fish at the end of the week.
 - B. Possible response: Art had 60 more fish at the end of the week than at the beginning. I found an exact answer. First I added the number of fish he had during the week. I thought about 500 + 600 = 1100 and 88 + 3 = 91. Then I added 1100 + 91 = 1191 total fish. Then I added the number of fish that left the store by being sold or dying. When I answered 7A, I got 460 + 80 = 540, so I just added the 2 from the 462 and the 1 from the 81 and got 543 fish that left the store. I subtracted 1191 543 = 648 to find the number of fish he had at the end of the week. Then I subtracted 648 588 = 60 to get my answer.
 - **C.** At the end of the week Art had 648 fish. 588 + 60 = 648.
- 8. Possible response: Art should buy another tank. If each tank holds about 150 fish, Art can hold about 600 fish in four tanks. I used doubles to find my answer. First I doubled 150 to find that 2 tanks will hold about 300 fish. Then I double 300 to find that 4 tanks will hold about 600 fish. Since Art has 648 fish he should get another tank, because 5 tanks would hold about 750 fish (600 +150 = 700).





pro 1	. Th on Sa	e busiest days for the store are usuall the weekend. What were the sales fo turday and Sunday altogether?	y or	E
2	. Ho sal co da	w much more were the combined es of Saturday and Sunday than the mbined sales of the next two busiest ys?		Î Î
3	. A.	During the same week last year, the store's sales on Tuesday were \$2966. How much more did the	Sales at Art's Dime Store April: Week 1	
	в	store sell this year on Tuesday?	Day of the Week	Sales
	Б.	in your head or with a few quick notes.	Monday	\$5271
			Tuesday	\$3008
4	 Writ abo 	rite and solve your own problem bout the sales at Art's Dime Store.	Wednesday	\$3065
			Thursday	\$4753
			Friday	\$4329
			Saturday	\$8297
			Sunday	\$6084

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Homework (SG p. 187) Questions 1–4

- **I.** \$14,381
- **2.** \$4,357; Monday and Thursday's combined total is \$10,024.
- **3. A.** \$42
 - **B.** Solution strategies will vary. Students can add up from 2966:

$$2966 + (4) = 2970$$
$$2970 + (30) = 3000$$
$$3000 + (8) = 3008$$
$$4 + 30 + 8 = $42$$

4. Answers will vary. Possible response: About how much did the store make in sales during the first week in April? Show how you found your answer. The store made about \$34,000 during the first week of April. I rounded each number to the nearest 1000 and added. 5000 + 3000 + 3000 + 5000 + 4000 + 8000 +6000. First I looked for 10s, I added 5000 + 5000 = 10,000 and 6000 + 4000 =10,000. Then I doubled the 3000 to equal 6000 and added 6000 + 8000 to get 14,000. Finally I added 10,000 + 10,000 + 14,000 =34,000.