Name _____ Date _____

RETEACHING • Going to Movies and Shows

CH. 5 REV PACKET

Movie tickets at the Cineplace Theaters are as follows: $6 for adults; $4.75 for students over 12; $3.25 for students 12 or under; and children under 5 are admitted for free.

You and your brother are students over age 12. Your sister is 3 y old. What will it cost your parents to take the whole family to the movies? How much change would they get from $30?

THINK: 2 adults, 2 students over 12, 1 free admission

1. *Round* ticket prices to estimate total cost. $6 + $6 + $5 + $5 = $22
2. *Add* to find the actual cost. $6 + $6 + $4.75 + $4.75 = $21.50

It will cost your parents $21.50.

3. *Compare* the actual cost with the estimate. The answer is reasonable.
4. *Subtract* to find the change. $30.00 − $21.50 = $8.50

   The change will be **$8.50**.

Use these movie prices to solve the problems.
Remember to estimate whenever you use your calculator.

	Cinema A	Cinema B	Cinema C
Adults	$6.00	$6.25	$6.75
Students (over 12)	$4.75	$3.75	$5.75
Students (12 or under)	$3.25	$3.75	$4.50
Children (under 5)	$1.25	free	$1.75

Rivera family: 2 adults, 1 student over 12, 1 student 12 or under, 1 child under 5

1. How much would it cost for the Rivera family to go to Cinema A? _____
2. How much change would they get from $25? _____
3. How much would it cost for the Rivera family to go to Cinema B? _____
4. How much change would they get from $25? _____

Cohen family: 1 adult, 2 students over 12, 1 child under 5

5. How much would it cost for the Cohen family to go to Cinema A? _____
6. How much change would they get from $20? _____
7. How much would it cost for the Cohen family to go to Cinema B? _____
8. How much change would they get from $20? _____
9. How much would it cost for the Cohen family to go to Cinema C? _____
10. How much change would they get from a $50 bill? _____

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RETEACHING ◆ Going to Parks and Sports Events

At Adventure Land Park, an **all-day pass** costs $15. If you pay separately, the Looper costs $2.50, the Coaster costs $3.50, and the Tilt Slide and the Water Trough cost $1.75 each. You want to go on each ride twice. How much would you save by buying an all-day pass?

THINK: *Find the difference* between the cost of an all-day pass and the cost of paying for each ride.

1. *Multiply* to find the cost of going on each ride twice. Looper: 2 × $2.50 = $5 Tilt Slide: 2 × $1.75 = $3.50 Coaster: 2 × $3.50 = $7 Water Trough: 2 × $1.75 = $3.50
2. *Add* to find total cost of rides. $5 + $7 + $3.50 + $3.50 = $19
3. *Subtract* to find amount saved. $19 − $15 = $4

You would save **$4** by buying an all-day pass.

Find the total cost of the given ride tickets.

WONDERLAND PARK

Tilt Slide	$2.00	Giant Swing	$3.50
Looper	$2.50	Puddle Jumper	$2.75
Water Trough	$2.00	Merry-Go-Round	$1.75
Coaster	$3.00		

1. 2 Puddle Jumpers
3 Coasters
2 Loopers
1 Tilt Slide
_____

2. 4 Water Troughs
1 Merry-Go-Round
2 Giant Swings
_____

3. 2 Puddle Jumpers
3 Loopers
1 Giant Swing
2 Coasters
_____

4. 2 Tilt Slides
1 Looper
1 Merry-Go-Round
4 Water Troughs
_____

5. 4 Coasters
1 Puddle Jumper
1 Giant Swing
3 Loopers
_____

6. 3 Tilt Slides
4 Giant Swings
2 Merry-Go-Rounds
1 Water Trough
_____

Solve. Remember to estimate whenever you use your calculator.

7. You have $9. How many times could you ride the Water Trough? _____

8. You have $12. How many times could you ride the Looper? _____

9. You want to go on each ride once. Find the total cost of the tickets. Decide if you should pay separately or buy an all-day pass that costs $20. _____

10. You want to ride the Coaster 4 times, the Tilt Slide twice, and the Giant Swing twice. How much would you save by buying an all-day pass that costs $20? _____

11. You want to ride the Merry-Go-Round twice, the Looper 3 times, the Water Trough 4 times, and the Puddle Jumper twice. How much would you save by buying an all-day pass? _____

12. You want to ride the Giant Swing twice, the Tilt Slide 3 times, and the Water Trough twice. How much would you save by paying separately? _____

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RETEACHING ◆ Hobbies

You need different quantities of various materials to finish a model: 2 $\frac{1}{2}$-in. dowels, 1 jar of paste, 1 bottle of paint, and 2 bags of balsa wood. Use the Hobby Shop Price List on page 88 of your book. What is your total cost?

1. *Multiply* to find the cost of the dowels. $2 \times \$1.89 = \$3.78$
2. *Multiply* by 2 to find the cost of the wood. $2 \times \$2.95 = \$5.90$
3. *Add* the cost of *all* materials to find total cost.

   dowels + balsa wood + paste + paint = total cost
   ↓ ↓ ↓ ↓ ↓
   \$3.78 \$5.90 \$0.75 \$1.05 = \$11.48

4. *Check.*
   THINK: Is \$11.48 a reasonable amount? Estimate: \$4 + \$6 + \$1 + \$1 = \$12
   The answer is **reasonable**.

Find the total cost of the materials. Use the Hobby Shop Price List on page 88.

1. 1 $\frac{1}{4}$-in. dowel
3 jars paste
2 bags balsa wood
1 pkg. decals
_____

2. 3 $\frac{1}{2}$-in. dowels
1 jar paste
1 paint brush
2 bottles paint
_____

3. 2 bags balsa wood
3 pkgs. decals
1 bottle paint
2 paint brushes
_____

Find the total cost of the materials. Then find the amount of change.

4. 2 $\frac{1}{2}$-in. dowels
1 bottle paint
2 paint brushes
1 pkg. decals
Change from \$10
_____

5. 4 $\frac{1}{4}$-in. dowels
2 $\frac{1}{2}$-in. dowels
3 jars paste
3 bottles paint
Change from \$15
_____

6. 5 $\frac{1}{2}$-in. dowels
4 bags balsa wood
2 jars paste
3 pkgs. decals
Change from \$30
_____

Solve. Remember to estimate whenever you use your calculator.

7. At the Hobby Shop, Dolores buys 1 bag of balsa wood, 2 $\frac{1}{2}$-in. dowels, 1 bottle of paint, and 2 jars of paste. If she pays with a 10-dollar bill, will she have enough money left for a package of decals? _____

8. Erik bought 1 bag of balsa wood, 1 $\frac{1}{4}$-in. dowel, 2 $\frac{1}{2}$-in. dowels, and 1 jar of paste at the Hobby Shop. If he pays with a 10-dollar bill, will he have enough money left to buy 1 bottle of paint? _____

9. Al bought 4 $\frac{1}{4}$-in. dowels, 2 $\frac{1}{2}$-in. dowels, 2 bottles of paint, 1 bag of balsa wood, and 2 paint brushes. Will he have enough change left over from \$15 to buy another bag of wood? _____

10. Sue bought 3 $\frac{1}{4}$-in. dowels, 2 $\frac{1}{2}$-in. dowels, 1 bag of balsa wood, and 3 pkg. of decals. Will she have enough change left from \$15 to buy 3 bottles of paint? _____

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RETEACHING ◆ Sports Equipment and Fees

When planning to take part in a sports activity, keep all the costs in mind. Suppose you decide to join an athletic club and play basketball for the season.

THINK: TOTAL COST = EQUIPMENT COST + USE FEES + TRANSPORTATION COSTS.

Sports activity	Equipment cost	Use fees	Round-trip transportation	Total cost
Basketball	$85.95	$50 membership + 24 h at $2/h	12 trips at $1.25/trip	■

Use a step-by-step approach to find your total costs.

1. *Add* to find the cost of equipment and membership fees.

   $85.95 + $50 = **$135.95**

2. *Multiply* to find the repeating costs of sessions and round-trip transportation.

   24 h × $2/h = **$48.00** 12 trips × $1.25/trip = **$15.00**

3. *Add* all amounts to find your total costs.

   $135.95 + $48.00 + $15.00 = **$198.95**

The total cost to participate in this sports activity is **$198.95**.

Complete the table below. Find the total cost of participating in each sports activity.

Sports activity	Equipment cost	Use fees	Round-trip transportation	Total cost
Ice-skating	$62.50	**1.** 10 visits at $4.50/visit = _____	$0.90	**2.** _____
Tennis	$115.00	**3.** $60 membership + 30 h at $9.50/h = _____	$0.00	**4.** _____
Swimming	$35.75	**5.** $45 membership + 20 visits at $3.50 per visit = _____	$1.40	**6.** _____
Squash	$56.95	**7.** $75 membership + 25 h at $7/h = _____	**8.** 25 trips at $0.80/trip = _____	**9.** _____
Racquetball	$62.75	**10.** $85 membership + 35 h at $8/h = _____	**11.** 35 trips at $1.10/trip = _____	**12.** _____
Bowling	$45.89	**13.** 48 games at $2.85 per game = _____	**14.** 16 trips at $1.60/trip = _____	**15.** _____

Solve. Remember to estimate whenever you use your calculator.

16. Warren plans to play squash 25 times. He can either rent or buy a racquet. Racquets sell for $52 and rent for $2.50 per h. Will it be less expensive for him to rent or to buy a racquet? _____

17. Judy plans to go ice-skating 20 times. Ice skates sell for $45 and rent for $1.75 per h. Will it be less expensive for her to rent or to buy ice skates? _____

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RETEACHING ◆ Health Clubs and Fitness Classes

You want to sign up for an aerobics class that meets 3 times per wk. The class costs $90 for 12 wk (36 classes) or $175.50 for 26 wk (78 classes). How much less would the cost per class be if you sign up for 26 wk instead of 12 wk?

THINK: To find *cost per class*, *divide* total cost by number of classes.

To find the *difference* in costs per class, *subtract.*

1. Find the cost of a 12-wk class. $90 ÷ 36 = $2.50
2. Find the cost of a 26-wk class. $175.50 ÷ 78 = $2.25
3. Find the difference in cost. $2.50 − $2.25 = $0.25

It would cost **$0.25 less** per class if you sign up for the longer term.

Find out how much can be saved per class, to the nearest cent, by signing up for the longer-term class.

1. **Aerobics**
   $82.50 for 30 classes
   $120 for 50 classes
   _____

2. **Judo**
   $187.50 for 25 classes
   $382.20 for 52 classes
   _____

3. **Jazz Dance Workout**
   $72 for 12 classes
   $105.50 for 20 classes
   _____

4. **Weight Training**
   $123.75 for 15 classes
   $198.75 for 25 classes
   _____

5. **Floor Exercises**
   $329.40 for 15 wk (45 classes)
   $458.25 for 26 wk (78 classes)
   _____

6. **Karate**
   $72.60 for 6 wk (12 classes)
   $89.60 for 8 wk (16 classes)
   _____

7. **Aquatic Aerobics**
   $195 for 10 wk (20 classes)
   $384 for 24 wk (48 classes)
   _____

8. **Yoga**
   $324 for 12 wk (36 classes)
   $581.25 for 25 wk (75 classes)
   _____

9. **Ballet**
   $90 for 15 classes
   $140 for 25 classes
   _____

10. **Swimming**
    $240 for 16 wk (32 classes)
    $440 for 35 wk (70 classes)
    _____

Solve. Remember to estimate whenever you use your calculator.

11. You want to sign up for a Jazz Dance Exercise Class that meets 2 times per wk. The class costs $245 for 10 wk (20 classes) or $550 for 25 wk (50 classes). How much less would the cost per class be if you sign up for 25 wk instead of 10 wk?
    _____

12. Suki wants to sign up for a jazz dance class that meets twice each week. The 12-wk class costs $132. The 26-wk class costs $247. How much less would the cost per class be if she signs up for the longer-term class?
    _____

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