1. 
$$\frac{3}{5} = \frac{3}{40}$$

2. 
$$\frac{5}{6} = \frac{5}{54}$$

3. 
$$\frac{4}{9} = \frac{4}{45}$$

4. 
$$\frac{3}{5} = \frac{3}{40}$$

5. 
$$\frac{3}{4} = \frac{3}{36}$$

6. 
$$\frac{5}{7} = \frac{30}{1}$$

7. 
$$\frac{16}{9} = \frac{16}{24}$$

8. 
$$\frac{9}{60} = \frac{36}{60}$$

9. 
$$\frac{5}{6} = \frac{15}{1}$$

10. 
$$\frac{6}{40} = \frac{6}{8}$$

11. 
$$\frac{4}{10} = \frac{4}{40}$$

12. 
$$\frac{4}{6} = \frac{15}{15}$$

13. 
$$\frac{2}{1\frac{1}{2}} = \frac{4}{1}$$

$$14. \ \frac{2\frac{1}{2}}{3\frac{1}{2}} = \frac{6}{}$$

15. Apples sell at 6 for 43 cents. How much for 18 apples?

16. A basketball player made 7 free throws out of every 10 attempts. How many free throws did he make in 130 attempts?

17. If a car averages 8 kilometers per liter of gasoline, how many kilometers can it go on 23 liters?

18. On a map, 3 centimeters represents 75 kilometers. How many kilometers of actual distance is represented by 6.4 centimeters on the map?

19. Oranges sell at 5 for 39 cents. How much do 18 oranges cost?

20. Ms. Jones uses 1 kg of sliced turkey for 26. Ella earned \$15.75 in interest on savings of each 8 dinner guests. How much sliced \$300. How much interest would he earn on turkey would she use for 220 guests? savings of \$550? 21. Jack mixes 525 kg of sand with each 6 sacks of cement. How much sand would he 27. Jamie recalls years ago paying \$16.50 in mix with 20 sacks of cement? sales tax when she bought a used car for \$550.00. How much sales tax did she pay per dollar? 22. Alex bought 5 shares of stock for \$436.25. How much would he pay for 12 shares of the same stock? 28. Mike used 0.5 kg of grass seed to cover 22.5 m<sup>2</sup> of lawn. How many kg of seed would he use to cover 162 m<sup>2</sup> of lawn? 23. Delta has a property tax of \$9.75 per \$5000 value. Your home is valued at \$250,000. How much are your taxes? 29. 12 600 kg of sand is needed to make 27 m<sup>3</sup> of concrete. How much concrete can be made with 16 800 kg of sand? 24. Doris bought 8 bags of fertilizer for \$57.52. She needs 3 more bags. How much will the 3 bags cost on their own? 30. Bob bought 4 dozen cupcakes for \$13.85. How much did 1 cupcake cost him? 25. Rob drove in 64 runs in 285 times at bat.

130 runs?

How many times must he bat to drive in

### Proportion Solving Assignment 1 Answers

1. 
$$\frac{3}{5} = \frac{3}{40} = 24$$

2. 
$$\frac{5}{6} = \frac{5}{54} = 45$$

3. 
$$\frac{4}{9} = \frac{4}{45} = 20$$

4. 
$$\frac{3}{5} = \frac{3}{40} = 24$$

5. 
$$\frac{3}{4} = \frac{3}{36} = 27$$

6. 
$$\frac{5}{7} = \frac{30}{} = 42$$

7. 
$$\frac{16}{9} = \frac{16}{24} = 5.9... \implies 6$$

$$8. \quad \frac{9}{60} = \frac{36}{60} = 15$$

9. 
$$\frac{5}{6} = \frac{15}{10} = 18$$

10. 
$$\frac{6}{40} = \frac{6}{8} = 30$$

11. 
$$\frac{4}{10} = \frac{4}{40} = 16$$

12. 
$$\frac{4}{6} = \frac{1}{15} = 10$$

13. 
$$\frac{2}{1\frac{1}{2}} = \frac{4}{1} = 3$$

14. 
$$\frac{2\frac{1}{2}}{3\frac{1}{2}} = \frac{6}{5} = 8\frac{2}{5}$$
 or 8.4

29. 36 m3

30. \$0.29 (0.2885)

1. 
$$\frac{3}{5} = \frac{3}{80}$$

2. 
$$\frac{5}{6} = \frac{5}{108}$$

3. 
$$\frac{4}{9} = \frac{4}{90}$$

4. 
$$\frac{3}{5} = \frac{3}{80}$$

5. 
$$\frac{3}{4} = \frac{3}{72}$$

6. 
$$\frac{5}{7} = \frac{60}{}$$

7. 
$$\frac{16}{4.5} = \frac{16}{18}$$

8. 
$$\frac{4.5}{60} = \frac{36}{60}$$

9. 
$$\frac{5}{6} = \frac{30}{6}$$

10. 
$$\frac{6}{120} = \frac{6}{8}$$

11. 
$$\frac{4}{10} = \frac{4}{50}$$

12. 
$$\frac{4}{6} = \frac{27}{27}$$

13. 
$$\frac{2}{1\frac{1}{2}} = \frac{8}{1}$$

14. 
$$\frac{2\frac{1}{2}}{3\frac{1}{2}} = \frac{15}{3}$$

15. Apples sell at 6 for 43 cents. How much for 24 apples?

16. A basketball player made 7 free throws out of every 10 attempts. How many free throws did he make in 230 attempts?

17. If a car averages 8 kilometers per liter of gasoline, how many kilometers can it go on 25 liters?

18. On a map, 3 centimeters represents 75 kilometers. How many kilometers of actual distance is represented by 7.5 centimeters on the map?

19. Oranges sell at 5 for 39 cents. How much do 21 oranges cost?

26. Ella earned \$15.75 in interest on savings of 20. Ms. Jones uses 1 kg of sliced turkey for each 8 dinner guests. How much sliced \$300. How much interest would be earn on turkey would she use for 200 guests? savings of \$570? 21. Jack mixes 525 kg of sand with each 6 sacks of cement. How much sand would he 27. Jamie recalls years ago paying \$8.25 in mix with 27 sacks of cement? sales tax when she bought a used car for \$275.00. How much sales tax did she pay per dollar? 22. Alex bought 5 shares of stock for \$436.25. How much would he pay for 15 shares of the same stock? 28. Mike used 0.5 kg of grass seed to cover 22.5 m<sup>2</sup> of lawn. How many kg of seed would he use to cover 281.25 m<sup>2</sup> of lawn? 23. Delta has a property tax of \$9.75 per \$5000 value. Your home is valued at \$350,000. How much are your taxes? 29. 12 600 kg of sand is needed to make 27 m<sup>3</sup> of concrete. How much concrete can be made with 94 500 kg of sand? 24. Doris bought 8 bags of fertilizer for \$57.52. She needs 3 more bags. How much will the 3 bags cost on their own? 30. Bob bought 4 dozen cupcakes for \$12.00. How much did 1 cupcake cost him? 25. Rob drove in 64 runs in 288 times at bat. How many times must he bat to drive in 160 runs?

### Proportion Solving Assignment 2 Answers

1. 
$$\frac{3}{5} = \frac{3}{80} = 48$$

$$2. \quad \frac{5}{6} = \frac{5}{54} = 90$$

3. 
$$\frac{4}{9} = \frac{4}{45} = 40$$

4. 
$$\frac{3}{5} = \frac{3}{80} = 48$$

$$5. \quad \frac{3}{4} = \frac{3}{72} = 54$$

6. 
$$\frac{5}{7} = \frac{60}{1} = 84$$

7. 
$$\frac{16}{4.5} = \frac{16}{18} = 4$$

8. 
$$\frac{4.5}{60} = \frac{36}{60} = 7.5$$

9. 
$$\frac{5}{6} = \frac{30}{10} = 36$$

10. 
$$\frac{6}{120} = \frac{6}{8} = 90$$

11. 
$$\frac{4}{10} = \frac{4}{50} = 20$$

12. 
$$\frac{4}{6} = \frac{4}{27} = 18$$

13. 
$$\frac{2}{1\frac{1}{2}} = \frac{8}{1} = 6$$

14. 
$$\frac{2\frac{1}{2}}{3\frac{1}{2}} = \frac{15}{2} = 21$$

15. 
$$\frac{6}{0.43} = \frac{24}{0.43} = \$1.72$$

16. 
$$\frac{7}{10} = \frac{7}{230} = 161$$

17. 
$$\frac{8}{1} = \frac{25}{25} = 200$$

18. 
$$\frac{3}{75} = \frac{7.5}{1} = 187.5$$

19. 
$$\frac{5}{0.39} = \frac{21}{0.39} = \$1.64 \ (\$1.638 \text{ or } 163.8¢)$$

20. 
$$\frac{1}{8} = \frac{1}{200} = 25$$

21. 
$$\frac{525}{6} = \frac{27}{27} = 2362.5 \text{ kg}$$

22. 
$$\frac{5}{436.25} = \frac{15}{100} = 1000$$

23. 
$$\frac{9.75}{5,000} = \frac{1}{350,000} = $682.50$$

24. 
$$\frac{57.52}{8} = \frac{1}{1} = 7.19 \text{ x } 3 = \$21.57$$

25. 
$$\frac{64}{288} = \frac{160}{288} = 720$$

26. 
$$\frac{15.75}{300} = \frac{15.75}{570} = $29.93 (29.925)$$

27. 
$$\frac{8.25}{275} = \frac{1}{1} = 0.03 \ (3¢)$$

$$28. \ \frac{0.5}{22.5} = \frac{0.5}{281.25} = 6.25$$

29. 
$$\frac{12,600}{27} = \frac{94,500}{27} = 202.5$$

30. 
$$\frac{48}{12} = \frac{1}{12} = \$0.25 \ (25\%)$$

[A] 20 ft. by 45 ft.

[C] 20 in. by 38 in.

[D] 60 in. by 114 in.

[B] 30 ft. by 57 ft.

[7]

opoi	rtion & Scaling Practice 01		Page	1	
1.	Choose the fraction that shows the ratio of 3 dogs to 9 dogs.	8.	There is a law stating that "the ratio of the width to length for the American flag should be 10 to 10". Which are of the following	l	
	[A] $\frac{3}{12}$ [B] $\frac{3}{9}$ [C] $\frac{6}{9}$ [D] $\frac{9}{3}$		be 10 to 19". Which one of the following flags is not the correct ratio?		
	12 9 9 3		[A] 30 ft. by 59 ft. [B] 50 ft. by 95 ft.		
	[1]		[C] 30 in. by 57 in.		
_			[D] 100 in. by 190 in.		
2.	Express the ratio 10 to 24 as a fraction in lowest terms.		[8]		
	[A] $\frac{5}{12}$ [B] $\frac{10}{24}$ [C] $\frac{5}{6}$ [D] $\frac{12}{5}$	9.	The ratio of males to females at a certain university is 5 to 9. If there are 19,530 male	es	
	[2]		at the university, how many females are there?		
2	The ratio of cars to people in Germany is		[A] 34,720 females [B] 10,416 female	S	
٥.	325 to 1000. Write this ratio as a fraction in reduced form.		[C] 35,154 females [D] 10,850 female	S	
	[A] $\frac{13}{40}$ [B] $\frac{325}{1000}$ [C] $\frac{13}{20}$ [D] $\frac{13}{80}$		[9]		
	[3]	10.	The ratio of males to females at a certain university is 7 to 3. If there are 9198 ma at the university, how many females are there?		
4.	Name the fraction that shows the ratio of 3 vans to 7 vans.		[A] 3504 females [B] 21,024 females		
F 43			[C] 3942 females [D] 21,462 females		
[4]			[10]		
5.	Express the ratio 3 to 42 as a fraction in lowest terms.	11.	There is a law stating that "the ratio of the		
[5]			width to length for the American flag should be 10 to 19". Is a flag measuring 50 by 97 feet of the correct ratio?	l	
6.	The ratio of cars to people in New Zealand is	[11]			
	425 to 1000. Write this ratio as a fraction in reduced form.	[**]		_	
[6]		12.	There is a law stating that "the ratio of the width to length for the American flag should be 10 to 10". Is a flag massuring 30 by 57	l	
7.	There is a law stating that "the ratio of the		be 10 to 19". Is a flag measuring 30 by 57 feet of the correct ratio?		
<i>,</i> .	width to length for the American flag should be 10 to 19". Which one of the following flags is not the correct ratio?	[12]			

13. The ratio of males to females at a certain university is 8 to 3. If there are 10,488 males at the university, how many females are

there?

[13]

- 14. The ratio of males to females at a certain university is 7 to 4. If there are 12,264 males at the university, how many females are there?
- [14]
- 15. Write as a proportion: 5 is to 7 as 10 is to x.
  - [A]  $\frac{x}{5} = \frac{7}{10}$  [B]  $\frac{7}{5} = \frac{10}{x}$
  - [C]  $\frac{5}{7} = \frac{10}{x}$  [D] x = 14

[15]

- 16. There are 3 male students to every 6 female students at a local school. Select the statement of the condition when there are 39 male students.

  - [A]  $\frac{3}{6} = \frac{x}{39}$  [B]  $\frac{6}{3} = \frac{39}{x}$
  - [C]  $\frac{3}{6} = \frac{39}{r}$  [D]  $\frac{39}{3} = \frac{6}{r}$

[16]

- 17. Write as a proportion: 3 is to 8 as 15 is to x.
- [17]
  - 18. What is the value of \*?  $\frac{4}{9} = \frac{*}{63}$ 
    - [A] 252
- [B] 28 [C] 26 [D] 63

[18]

- 19. What is the value of \*?  $\frac{5}{8} = \frac{*}{32}$ 
  - [A] 160
- [B] 20 [C] 5
- [D] 32

[19]

Solve:

20. 
$$\frac{9}{2} = \frac{q}{10}$$

- [A] 45
- [B]  $\frac{10}{9}$ 
  - [C] 90
- [D] 18

[20]

21.  $\frac{5}{3} = \frac{f}{6}$ 

- [A] 10 [B]  $\frac{6}{5}$
- [C] 20
- [D] 15

[21]

22.  $\frac{7}{n} = \frac{8}{4}$ 

- [A] 14 [B]  $1\frac{3}{8}$  [C]  $3\frac{1}{2}$  [D]  $4\frac{4}{7}$

[22]

23.  $\frac{13}{n} = \frac{6}{8}$ 

- [A]  $9\frac{3}{4}$  [B]  $3\frac{1}{2}$  [C]  $17\frac{1}{3}$

[23]

24.  $\frac{64}{25} = \frac{x}{35}$ 

- [A]  $\frac{1}{64}$
- [B]  $13\frac{43}{64}$
- [C]  $89\frac{3}{5}$
- [D]  $45\frac{5}{7}$

[24]

25.  $\frac{4}{49} = \frac{x}{35}$ 

[A]  $\frac{1}{4}$  [B]  $428\frac{3}{4}$  [C]  $2\frac{6}{7}$ 

26.	What is the value of *?	3	=	*
		<del>-</del> 4		32

[26]

27. What is the value of \*? 
$$\frac{5}{6} = \frac{*}{54}$$

[27]

Solve:

28. 
$$\frac{6}{5} = \frac{x}{15}$$

[28]

29. 
$$\frac{9}{4} = \frac{j}{24}$$

[29]

30. 
$$\frac{17}{6} = \frac{x}{21}$$

[30]

31. 
$$\frac{4}{9} = \frac{x}{5}$$

[31]

- 32. If 3 cans of pears cost \$2.52, how many cans of pears can you buy for \$10.92?
  - [A] 14
- [B] 4
- [C] 39
- [D] 13

[32]

- 33. If Super Store sells 5 giant jaw breakers for \$0.67 and Mighty Mart sells 40 of the gian jaw breakers for \$2.68, which of the following is true?
  - [A] The unit price for giant jaw breakers is the same at both stores.
  - [B] The unit price for giant jaw breakers a Mighty Mart is about \$0.07 each.
  - [C] The unit price for giant jaw breakers a Super Store is about \$0.17 each.
  - [D] Super Store offers the better buy.

[33]

- 34. A survey indicated that 2 out of 6 doctors use brand X aspirin. If 1,800 doctors were surveyed, how many used brand X?
  - [A] 900 used brand X
  - [B] 1,200 used brand X
  - [C] 600 used brand X
  - [D] 300 used brand X

[34]

- 35. The cost of 70 shares of Fly-by-Night Airlines is \$77.50. How many shares can you buy with \$775.00?
- [35]
- 36. A jar of 252 multi-colored jelly beans contains 84 red jelly beans. If 21 jelly bea are picked from the jar, estimate how many jelly beans will be red.
- [36]
- 37. If Super Store sells 5 giant jaw breakers for \$0.48 and Mighty Mart sells 25 of the giar jaw breakers for \$2.88, which store offers the better buy?
- [37]

- [1] B
- [2] A
- [3] A
- $[4] \quad \frac{3}{7}$
- $[5] \frac{1}{14}$ 
  - 17
- [6] 40
- [7] A
- [8] A
- [9] C
- [10] C
- [11] no
- [12] yes
- [13] 3933 females
- [14] 7008 females
- [15] C
- [16] C
- $\frac{3}{8} = \frac{15}{x}$
- [18] B
- [19] B
- [20] A
- [21] A
- [22] C
- [23] C
- [24] C

- [25] C
- [26] 24
- [27] 45
- [28] 18
- [29] 54
- [30]  $59\frac{1}{2}$
- [31]  $2\frac{2}{9}$
- [32] D
- [33] B
- [34] C
- [35] 700 shares
- [36] 7
- [37] Super Store

Solve each proportion.

$$1. \qquad \frac{1}{2} = \frac{x}{8}$$

2. 
$$\frac{1}{2} = \frac{x}{12}$$

$$3. \qquad \frac{n}{16} = \frac{1}{2}$$

$$4. \qquad \frac{1}{3} = \frac{y}{15}$$

5. 
$$\frac{t}{7} = \frac{12}{28}$$

$$6. \qquad \frac{x}{12} = \frac{36}{144}$$

$$7. \qquad \frac{t}{10} = \frac{45}{150}$$

8. 
$$\frac{x}{8} = \frac{21}{56}$$

9. 
$$\frac{9}{n} = \frac{81}{90}$$

10. 
$$\frac{3/4}{6} = \frac{n}{24}$$

11. 
$$\frac{1/5}{8} = \frac{x}{80}$$

12. 
$$\frac{y}{30} = \frac{7/10}{3}$$

13. 
$$\frac{60}{d} = \frac{10}{2/3}$$

14. 
$$\frac{3}{1/6} = \frac{n}{7}$$

- 15. Find the unit price of 100 grams of sugar for \$1.50.
- 16. Find the unit price of 4 kilograms of chicken for \$6.76.

- 17. Find the unit price of 2 pints of frozen yogurt for \$3.84.
- 18. What is the unit price of  $5 \,\mathrm{kg}$  of apples for \$2.59?

- 19. What is the unit price of 5 pounds of ground beef for \$9.49?
- 20. Which is a better buy, 3 pounds of potatoes for \$1.79, or 10 pounds of potatoes for \$6.00?

- 21. Which is a better buy, a 20 ounce box of cereal for \$4.69, or a 16 ounce box of cereal for \$3.99?
- 22. Which is a better buy, apples for \$0.79 per pound, or 5 pounds of apples for \$3.50?

- 23. Which is a better buy, 3 pounds of grapes for \$5.00, or grapes for \$1.59 per pound?
- 24. A quart of milk costs \$0.79. A gallon of milk costs \$2.59. Which is a better buy?

A 12 ounce block of cheese costs \$1.57. A 1 pound block of cheese is \$1.96. Which is a better buy?	26.	Which is a better buy, 3 compact disks for \$20, or 5 compact disks for \$30?
Which is a better buy, 0.5 kilograms of crackers for \$1.69 or 380 grams for \$1.19?	28.	Which is a better buy, a 425 gram box of cereal for \$2.99, or a 1 kilogram box of cereal for \$7.29?
Which is a better buy, 2 liters of soda for \$1.29, or 500 milliliters of soda for \$0.40?	30.	Which is a better buy, 2 kilograms of peanuts for \$3.75 or 500 grams for \$0.99?
If Barbara walks at a rate of 2 miles per hour, how far will she walk in 3 hours?	32.	If Mr. Isaacs bicycles at a rate of 12 miles per hour, how far will he bicycle in 5 hours?
Mr. Patel can swim 15 laps in an hour. How many laps can he swim in 3 hours?	34.	Isabel runs 8 miles per hour. How long will it take her to run a marathon (26 miles)?
Marcos walks at an average rate of 3 miles per hour. How long will it take him to walk 6 miles?	36.	Jesse runs at an average rate of 15 kilometers per hour. How long will it take him to run 45 kilometers?
	1 pound block of cheese is \$1.96. Which is a better buy?  Which is a better buy, 0.5 kilograms of crackers for \$1.69 or 380 grams for \$1.19?  Which is a better buy, 2 liters of soda for \$1.29, or 500 milliliters of soda for \$0.40?  If Barbara walks at a rate of 2 miles per hour, how far will she walk in 3 hours?  Mr. Patel can swim 15 laps in an hour. How many laps can he swim in 3 hours?	1 pound block of cheese is \$1.96. Which is a better buy?  Which is a better buy, 0.5 kilograms of crackers for \$1.69 or 380 grams for \$1.19?  Which is a better buy, 2 liters of soda for \$1.29, or 500 milliliters of soda for \$0.40?  If Barbara walks at a rate of 2 miles per hour, how far will she walk in 3 hours?  Mr. Patel can swim 15 laps in an hour. How many laps can he swim in 3 hours?  Marcos walks at an average rate of 3 miles per 36.

37. A train left the station at 7:00 a.m. and arrived 38. A plane left New Orleans at 11:00 a.m., and at its destination at noon. Its average speed was arrived in Seattle 5 hours later. The average 125 kilometers per hour. How far did it travel? speed of the plane was 420 miles per hour. How far is it from New Orleans to Seattle? 39. If 1 kilometer is about 0.6 miles, how many How many miles are 15 kilometers if 1 mile is kilometers are 8 miles? about 1.6 kilometers? 41. How many grams are 4 pounds if 1 pound is 454 If 1 liter is 1.05 quarts, how many liters are grams? 6 quarts? 43. How many centimeters are 12 inches if 1 inch is 44. How many gallons are 6 liters if 1 liter is 2.54 centimeters? 0.26 gallons? 45. The ratio of Gravenstein to Pippin apples in an In a recent election, the ratio of yes votes to no orchard is 3:8. Find the number of Pippin apple votes for the new development project was 5:11. trees if there are 429 trees in the orchard. A total of 5,600 people voted. How many voted for the new development project? 47. The sides of a triangle are in the ratio 2:3:5. How many stone does Elizabeth weigh, if she The perimeter is 50 inches. Find the length of weighs 105 pounds? One stone is equal to each side. 14 pounds.

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Proportion & Scaling Practice 02 00/11/06

#### **Answer List**

- 2. 6 1. 4 8 5 3. 4. 5. 3 6. 3 3 8. 3 7. 3 9. 10 10. 11. 2 12. 7 14. 126 13. 4 15. **90.15 per gram** 1.5¢ or \$0.015 per gram 16. \$1.92 per pint 19.  $\approx$ \$1.90 per pound 21. 20 ounces for \$4.69
- 23. \$1.59 per pound25. 1 pound for \$1.9627. 380 grams for \$1.19
- 29. 2 liters for \$1.29
- 31. 6 mi33. 45 laps35. 2 hrs
- 37.  $625 \,\mathrm{km}$ 39.  $13\frac{1}{3} \,\mathrm{km}$
- 41. 1816 g43. 30.48 cm
- 45. 312 trees
- 47. 10 in, 15 in, 25 in

PRE GM 2

PRE GM 11

46. PRE GM 26

- 16. \$1.69 per kilogram
- 18.  $\approx$  \$0.52 per kilogram
- 20. 3 pounds for \$1.79
- 22. 5 pounds for \$3.50
- 24. a gallon for \$2.59
- 26. 5 compact disks for \$30
- 28. 425 grams for \$2.99
- 30. 2 kilograms for \$3.75
- 32. 60 mi
- 34. 3.25 hrs
- 36. 3 hrs
- 38. 2,100 mi
- 40. 9.375 mi
- 42.  $\approx 5.71$
- $44. 1.56 \, \text{gal}$
- 46. 1,750 people
- 48. 7.5 stone

#### Catalog List

1.	PRE GD 1	2.	$\mathrm{PRE}\;\mathrm{GD}\;2$
4.	PRE GD 4	5.	PRE GD $29$
7.	PRE GD 31	8.	PRE GD $32$
10.	PRE GD 53	11.	PRE GD 54
13.	PRE GD 58	14.	PRE GD 60
16.	PRE GE 3	17.	PRE GE 4
19.	PRE GE 6	20.	PRE GE $25$
22.	PRE GE 27	23.	PRE GE $28$
25.	PRE GE 30	26.	PRE GE 35
28.	PRE GE 42	29.	PRE GE 43
31.	PRE GL 1	32.	PRE GL $2$
34.	PRE GL 4	35.	PRE GL 21
37.	PRE GL 27	38.	PRE GL $28$

41. PRE GM 3

44. PRE GM 12

47. PRE GM 29

3. PRE GD 3 PRE GD 30 PRE GD 33 12. PRE GD 55 15. PRE GE 2 18. PRE GE 5 21. PRE GE 26 24. PRE GE 29 27. PRE GE 41 30. PRE GE 44 PRE GL 3 36. PRE GL 22 39. PRE GM 1 42. PRE GM 4 45. PRE GM 25 48. PRE GM 30