

Lesson 121

1. 25/\$1.25
15/\$1.69
5/\$2.35
15/27; 10/27; 3/27; 5/27

2. 733.33; 478.507
311.303; 35.325
102.19; 145.82

3. $\frac{32}{44}$
 $\frac{50}{98}$
 $\frac{51}{47}$
 $\frac{36}{98}$
 $\frac{33}{44}$
 $\frac{5}{47}$

4. 216 m² 810 cm²
345 ft² 117.50 in²

5. 5 - \$50.00 bills
\$250.00 - \$225.98 = \$24.02 in change

- \$3.92
\$11.80
\$126.00

6. \$7.00 \$28.00
\$19.65 \$78.60
\$39.80 \$159.19
\$9.00 \$36.00
\$5.00 \$20.00
\$47.00 \$188.00
\$15.10 \$60.40

7. 113,141; 88,833; 91,377; 61,479
LOST

Lesson 122

1.

12	15	18	21	24
4	5	6	7	8

6	8	10	12	14	16
3	4	5	6	7	8

3	4	5	6	7	8
6	8	10	12	14	16

2. 25/5
5/25
5/15
12/32
12/5
27/5

3.

54.6	54.6	9.15	0.007
45.9	61.71	12.86	665.3
45.9	54.6	50.47	61.71
<u>60.28</u>	6.19	26.46	9.15
206.68	<u>1.56</u>	<u>9.15</u>	<u>2.08</u>
	178.66	108.09	738.247

4. $\frac{5}{8}$ $\frac{1}{2}$ $\frac{10}{12} = \frac{5}{6}$ $\frac{7}{20}$

5. 97.5 cm²; 92 ft²; 150 m²

6. \$40.00
\$60.00
10 weeks
\$225.00
\$643.50

7.

\$15.00	\$60.00
\$639.65	\$2558.60
\$19.80	\$79.19
\$7.00	\$28.00
\$11.00	\$44.00
\$447.00	\$1788.00
\$35.10	\$140.40

Lesson 123

1. Answers will vary.

$$\frac{10}{15'} \frac{2}{3'}, \frac{4}{30'} \frac{2}{15'}, \frac{32}{16'} \frac{8}{4'}, \frac{6}{21'} \frac{4}{14}$$

$$\frac{9}{15'} \frac{3}{5'}, \frac{40}{5'} \frac{8}{1'}, \frac{110}{30'} \frac{22}{6'}, \frac{494}{214'} \frac{247}{107}$$

2.

4	6	8	10	12
48	72	96	120	144

6	9	12	15	18
2	3	4	5	6

60	72	84	96	108
5	6	7	8	9

3. 6/6; 6/12; 6/12; 2/6; 3/6; 1/3

4. 5.04; 3.01; 50.61
29.00; 4.33; 17.12

5. $\frac{2}{9'}$ $\frac{1}{29'}$ $\frac{1}{2}$
 $\frac{3}{4'}$ $\frac{1}{12'}$ $\frac{7}{10}$
 $\frac{5}{6'}$ $\frac{1}{8'}$ 1
 $\frac{4}{5'}$ $\frac{1}{4}$

Praise the Lord

6. 37.5 m²; 157.5 in²; 405 mm²

Lesson 124

1. $\frac{10}{20}$ $\frac{1}{2}$ $\frac{12}{15}$ $\frac{4}{5}$
 $\frac{4}{18}$ $\frac{2}{9}$ $\frac{300}{600}$ $\frac{1}{2}$ $\frac{3}{7}$ $\frac{99}{231}$

2. Answers will vary.
 $\frac{90}{70'} \frac{9}{7'}$ $\frac{65}{85'} \frac{13}{17'}$ $\frac{555}{575'} \frac{111}{115'}$ $\frac{50}{35'} \frac{10}{7}$

3. yes no
yes no
yes yes
yes no

4. 1/3
4/2
2/1
3/0
5/3
5/7
4/5
3/5

5.

2	20	40
33	15	18
4	8	48

6. Note: Some student books only list 12 possible triangles.

Any order:

- | | |
|-----------------------|-------------------------|
| 1. 625 m ² | 9. 1250 m ² |
| 2. 625 m ² | 10. 1250 m ² |
| 3. 625 m ² | 11. 1250 m ² |
| 4. 625 m ² | 12. 1250 m ² |
| 5. 625 m ² | 13. 2500 m ² |
| 6. 625 m ² | 14. 2500 m ² |
| 7. 625 m ² | 15. 2500 m ² |
| 8. 625 m ² | 16. 2500 m ² |

Lesson 125

1. 27; 18; 10; 15
30; 6; 2; 60

2.

81	72	63	54
18	16	14	12

4	6	8	10
10	15	20	25

2	4	6	8	10	12	14
3	6	9	12	15	18	21

6	5	4	3	2	1
18	15	12	9	6	3

3. REPENT

- b. 420,000,000
c. 350
3. a. $4.86237154008 \times 10^{11}$ 3.2158994×10^7
b. 9.116482305×10^9 8.54231647×10^8
c. $3.67254938152 \times 10^{11}$ 2.8946157×10^7
d. $9.3857116038 \times 10^{10}$ 5.382194×10^6

- b. 78 77 70
c. 35 33 33
d. 6 6.5, 6.7 2
e. 20 22 22

3. Suggested Asnwrs:
a. mode
b. mean
c. median
d. mode - Because he reached that number (23) the greatest number of times it is probably the most accurate of what he is able to do

4. a. 9 8 15
b. 13 14 11
c. 14 13 13
d. 50 51 68

WORKSHEET 29

1. a. $1\frac{1}{4}$ 1 $\frac{1}{2}$ $\frac{9}{10}$ $1\frac{3}{16}$ $\frac{2}{3}$
b. $\frac{1}{3}$ $\frac{5}{8}$ $\frac{7}{10}$ $\frac{4}{9}$ $\frac{2}{3}$ $\frac{1}{3}$
2. a. $\frac{8}{8} = 1$ $1\frac{8}{15}$ $\frac{16}{10} = 1\frac{6}{10} = 1\frac{3}{5}$ $\frac{7}{9}$ $\frac{16}{24} = \frac{2}{3}$
b. $\frac{6}{12} = \frac{1}{2}$ $\frac{8}{14} = \frac{4}{7}$ $\frac{2}{8} = \frac{1}{4}$ $\frac{4}{16} = \frac{1}{4}$ $\frac{4}{6} = \frac{2}{3}$
3. a. $\frac{8}{10} = \frac{4}{5}$ $\frac{15}{15} = 1$ $\frac{9}{12} = \frac{3}{4}$ $\frac{20}{16} = 1\frac{4}{16} = 1\frac{1}{4}$ $\frac{6}{9} = \frac{2}{3}$
b. $\frac{4}{20} = \frac{1}{5}$ 0 $\frac{6}{8} = \frac{3}{4}$ $\frac{9}{15} = \frac{3}{5}$ $\frac{5}{10} = \frac{1}{2}$

WORKSHEET 30

1. a. 12, 6, 16, 9, 21, 25
b. 10, 9, 8, 21, 4, 8
c. 4, 9, 14, 4, 7, 10
2. a. $\frac{7}{16}, \frac{10}{16}, \frac{8}{16}, \frac{12}{16}$ $\frac{7}{16}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$
b. $\frac{21}{24}, \frac{18}{24}, \frac{20}{24}, \frac{16}{24}, \frac{19}{24}$ $\frac{2}{3}, \frac{3}{4}, \frac{19}{24}, \frac{5}{6}, \frac{7}{8}$
c. $\frac{13}{18}, \frac{9}{18}, \frac{14}{18}, \frac{12}{18}, \frac{15}{18}$ $\frac{1}{2}, \frac{2}{3}, \frac{13}{18}, \frac{7}{9}, \frac{5}{6}$
d. $\frac{16}{36}, \frac{24}{36}, \frac{21}{36}, \frac{30}{36}, \frac{25}{36}$ $\frac{4}{9}, \frac{7}{12}, \frac{2}{3}, \frac{25}{36}, \frac{5}{6}$

2. a. 14 14 14

e. $\frac{2}{3} = \frac{8}{12}$ $\frac{3}{4} = \frac{9}{12}$ $\frac{5}{6} = \frac{10}{12}$ $\frac{7}{12}$

Mark, Jess, James, Karen

- b. $\frac{1}{3}, \frac{7}{15}, \frac{7}{16}, \frac{1}{12}, \frac{3}{10}, \frac{3}{10}$
c. $\frac{31}{36}, \frac{23}{24}, \frac{13}{14}, \frac{1}{4}, \frac{13}{30}, \frac{13}{18}$

WORKSHEET 31

1. a. $\frac{5}{18}, \frac{1}{3} = \frac{6}{18}, \frac{5}{9} = \frac{10}{18}, \frac{1}{2} = \frac{9}{18}, \frac{5}{6} = \frac{15}{18}, \frac{7}{9} = \frac{14}{18}$
 $\frac{5}{18}, \frac{1}{3}, \frac{1}{2}, \frac{5}{9}, \frac{7}{9}, \frac{5}{6}$
b. $\frac{3}{4} = \frac{18}{24}, \frac{1}{6} = \frac{4}{24}, \frac{2}{3} = \frac{16}{24}, \frac{7}{12} = \frac{14}{24}, \frac{11}{24}, \frac{5}{8} = \frac{15}{24}$
 $\frac{1}{6}, \frac{11}{24}, \frac{7}{12}, \frac{5}{8}, \frac{2}{3}, \frac{3}{4}$
2. a. $\neq 6 \times 3 = 18$ $2 \times 8 = 16$
 $\neq 7 \times 5 = 35$ $4 \times 8 = 32$
b. $= 2 \times 21 = 42$ $6 \times 7 = 42$
 $= 3 \times 12 = 36$ $4 \times 9 = 36$
c. $\neq 4 \times 15 = 60$ $8 \times 9 = 72$
 $\neq 2 \times 16 = 32$ $5 \times 8 = 40$
d. $= 5 \times 30 = 150$ $10 \times 15 = 150$
 $= 4 \times 15 = 60$ $6 \times 10 = 60$

3. a. $>$ $=$ $<$ $>$
b. $=$ $<$ $>$ $=$
c. $<$ $=$ $=$ $<$
d. $<$ $=$ $>$ $>$

WORKSHEET 32

1. a. 5, 10, 15, 20, 25
4, 8, 12, 16, 20
20
20

b. $\frac{3}{5} = \frac{12}{20}$
 $+\frac{1}{4} = \frac{5}{20}$

 $\frac{17}{20}$

2. $\frac{3}{6} = \frac{12}{24}$
 $-\frac{3}{8} = \frac{9}{24}$

 $\frac{3}{24} = \frac{1}{8}$

3. a. $1\frac{1}{9}, 1\frac{1}{16}, \frac{19}{24}, \frac{13}{15}, 1\frac{5}{24}, \frac{5}{6}$

WORKSHEET 33

1. a. a c a b b c c a
b. a c b c b a b c
2. a. 2 4 $4\frac{1}{5}$
b. $1\frac{8}{9}$ 5 $8\frac{1}{2}$
c. 3 $2\frac{3}{4}$ $1\frac{1}{7}$
3. a. 2 $1\frac{4}{5}$ 2 $2\frac{2}{5}$
b. $3\frac{1}{2}$ $1\frac{2}{4}(1\frac{1}{2})$ $3\frac{1}{3}$ 1

WORKSHEET 34

1. a. $13\frac{1}{10}$ $14\frac{11}{12}$ $9\frac{1}{8}$ $18\frac{1}{4}$ $14\frac{3}{10}$ $30\frac{4}{45}$
b. $5\frac{3}{8}$ $5\frac{2}{9}$ $3\frac{5}{16}$ $9\frac{7}{15}$ $7\frac{5}{14}$ $7\frac{11}{36}$
c. $6\frac{3}{8}$ $14\frac{4}{15}$ $15\frac{1}{2}$ $12\frac{1}{4}$ $31\frac{5}{6}$ $39\frac{19}{24}$
d. $4\frac{4}{15}$ $6\frac{1}{30}$ $8\frac{1}{24}$ $4\frac{11}{21}$ $7\frac{7}{20}$ $19\frac{4}{45}$
e. 36 $24\frac{1}{2}$ $25\frac{13}{15}$ $3\frac{1}{5}$ $6\frac{1}{3}$ $11\frac{1}{4}$
f. $11\frac{23}{24}$ $12\frac{1}{2}$ $31\frac{5}{18}$ 14 $7\frac{1}{6}$ $12\frac{1}{6}$

WORKSHEET 35

1. $11\frac{1}{8}$ $9\frac{5}{6}$ $7\frac{1}{3}$ $9\frac{1}{2}$ $3\frac{3}{4}$ $5\frac{1}{9}$ $3\frac{5}{6}$
2. $6\frac{1}{3}$ $15\frac{5}{12}$ $13\frac{1}{5}$ $4\frac{7}{9}$ $5\frac{7}{10}$ $1\frac{2}{5}$ $10\frac{3}{8}$
3. a. $3\frac{7}{8}$ $13\frac{2}{3}$ $5\frac{3}{4}$ $20\frac{1}{2}$ $13\frac{3}{5}$ $19\frac{5}{7}$
b. $14\frac{5}{9}$ $9\frac{4}{11}$ $17\frac{5}{12}$ $7\frac{3}{10}$ $6\frac{1}{4}$ $3\frac{7}{12}$
c. $5\frac{2}{5}$ $4\frac{1}{2}$ $5\frac{1}{4}$ $4\frac{1}{3}$ $\frac{5}{6}$ $2\frac{3}{8}$

WORKSHEET 26

1. a. $6 = 110_2$ f. $31 = 11111_2$
b. $12 = 1100_2$ g. $45 = 101101_2$
c. $15 = 1111_2$ h. $50 = 110010_2$
d. $17 = 10001_2$ i. $100 = 1100100_2$
e. $24 = 11000_2$ j. $128 = 10000000_2$
2. a. 3 f. 38
b. 8 g. 64
c. 28 h. 7
d. 63 i. 85
e. 19 j. 204

WORKSHEET 27

1. a. 28.258 66.804 68.65
b. 86.631 .669 24.44
c. 36.72 53.63 746
d. 5.85 7.52 6.44 2.51
e. 3.04 6.684 3.96 3.37
f. 7.4 14.1 539 1.75
2. a. 28.854 11.832 7.985
b. 44.808 1.3863 51.982
c. 3.8532 15.306 16.23
d. 21.037 17.75 41.002
3. a. 20.705 34.535 65.109
b. .015 3.479 33.878
c. 3.093 17.459 .0313
d. 1.48 .0171 4.8091

WORKSHEET 28

1. a. 16 47 30
b. 22 48 27
c. 465 261 422
d. 17 23
2. a. 14 14 14

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