

6.a) $\frac{11}{20}$; Multiplication b) $2\frac{1}{3}$; Division

c) $1\frac{10}{21}$; Division d) $\frac{1}{48}$; Subtraction

e) $1\frac{1}{3}$; Division f) $\frac{8}{9}$; Addition

7.a) $\frac{3}{16}$ b) $1\frac{5}{8}$ c) $1\frac{2}{3}$ d) $1\frac{3}{8}$

8. No; In the first equation you divide first, and in the second equation you multiply first.

9.a) $\frac{2}{5}$ b) $1\frac{1}{5}$ c) $\frac{1}{2}$

10.a) 4 b) $\frac{1}{18}$

11.a) Myra

b) Robert solved $(\frac{3}{4} - \frac{1}{2}) + \frac{13}{6} \times \frac{1}{2}$ then multiplied

by 4. Joe solved $(\frac{3}{4} - \frac{1}{2}) + \frac{13}{6}$ before

multiplying.

12.a) $2\frac{7}{8}$ b) $1\frac{5}{8}$ c) $5\frac{11}{15}$

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1.a) 3 b) $\frac{2}{5}$ c) $2\frac{11}{12}$ d) $\frac{3}{4}$

2. 12 glasses

3. $\frac{5}{6}$ h

Unit 3 Unit Review, page 159

1.a) $6 \times \frac{2}{5} = 2\frac{2}{5}$ b) $3 \times \frac{6}{7} = 2\frac{4}{7}$

2.a) 1 b) $3\frac{1}{2}$ c) $3\frac{1}{5}$

3.a) 18 b) 4 c) 50 d) $1\frac{1}{2}$

4.a) $\frac{1}{4}$ b) $\frac{6}{25}$ c) $\frac{21}{40}$ d) $\frac{1}{7}$

5. $\frac{3}{20}$

6.a) $\frac{3}{20}$ b) $\frac{3}{40}$ c) $\frac{7}{20}$ d) $\frac{4}{21}$

7. $\frac{3}{10}$

8. For example: $\frac{5}{7}$ of a litter of mice are grey with white patches. The other $\frac{2}{7}$ are black. Of the grey and white mice, $\frac{3}{8}$ are female. What fraction of the litter is grey, white, and female? $\frac{15}{56}$

9.a) $\frac{15}{2}$ b) $\frac{23}{8}$ c) $\frac{107}{10}$

10.a) $3\frac{1}{2}$ b) $7\frac{3}{5}$ c) $\frac{4}{5}$ d) $7\frac{1}{2}$

11.a) $3\frac{1}{6}$ b) $2\frac{13}{16}$ c) $3\frac{3}{20}$ d) $8\frac{2}{3}$

12. $4\frac{1}{12}$ h assuming that he mows at the same rate

13.a) $\frac{1}{10}$ b) 12

14.a) $3\frac{3}{4}$ b) $4\frac{4}{5}$ c) $\frac{3}{20}$ d) $\frac{7}{8}$

15. 16 glasses

16. $13\frac{1}{2}$ people

17. For example: $\frac{3}{4} \div 5 = \frac{3}{20}$

18.a) $1\frac{1}{2}$ b) $1\frac{1}{2}$

19.a) 2 b) $\frac{2}{7}$ c) $1\frac{1}{4}$ d) $\frac{5}{6}$

20. $5\frac{1}{4}$

21. For example: $\frac{3}{5} \div \frac{5}{3} = \frac{9}{25} < 1$

22.a) $\frac{40}{11}$ b) $\frac{31}{6}$ c) $\frac{44}{9}$ d) $\frac{29}{12}$

23.a) $\frac{14}{17}$ b) $1\frac{49}{66}$ c) $2\frac{6}{11}$ d) $\frac{1}{2}$

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

25. $\frac{1}{8}$

26. 882 tickets

27.a) $\frac{3}{10}$ b) 9 students

28.a) $\frac{3}{5}$; Multiplication b) $2\frac{2}{11}$; Subtraction

c) $2\frac{2}{5}$; Multiplication d) $\frac{3}{5}$; Division

29.a) $\frac{3}{4}$ b) $1\frac{3}{4}$ c) $\frac{1}{2}$ d) $\frac{5}{36}$

30. Carlton should have written $\frac{14}{5} \div \frac{9}{12} = \frac{14}{5} \times \frac{12}{9}$

Correct answer: $3\frac{11}{15}$

Unit 3 Practice Test, page 162

1. 6

2. $\frac{5}{12}$

3.a) 7 b) $\frac{3}{16}$ c) $\frac{5}{12}$ d) $\frac{3}{10}$

4.a) $2\frac{1}{32}$ b) 7 c) $2\frac{4}{7}$ d) $\frac{14}{15}$

5.a)

b)

6.a)

7. Tl

For

8.a)

9.a)

b)

one

c) A

d) E

g

10.a) $\frac{1}{1}$

c) i)

11.a) N.

Cumul

1.a) i)

ii)

iii)

iv)

b) 44

fac

2.a) 7.2

3.a) 32.

4.a) No;

5.a) No;

c) No;

6. 5 cm

7. 31.1 n

8.a) -72

9.a) (+4)

10. For ex

for 8 d

(+8) x

11.a) -11

12.a) -7

13.a) (-52

14. Answ.

a) i) (-

iii) (-

b) i) (-