

Extra Practice Answers


Extra Practice 1 – Master 5.24


- a) $\frac{7}{2}$, $3\frac{1}{2}$ b) $\frac{9}{4}$, $2\frac{1}{4}$

c) $\frac{14}{3}$, $4\frac{2}{3}$
- a) $\frac{7}{3}$ b) $\frac{10}{6}$ c) $\frac{5}{3}$

d) $\frac{7}{2}$ e) $\frac{19}{6}$ f) $\frac{17}{6}$
- a) $1\frac{1}{6}$ b) $2\frac{2}{3}$ c) $3\frac{1}{2}$

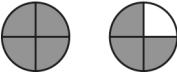
d) $1\frac{1}{2}$ e) $2\frac{5}{6}$ f) $3\frac{1}{3}$
- 42 cookies



- 11 times



- a) $\frac{11}{4}$ b) $\frac{15}{8}$ c) $\frac{23}{5}$

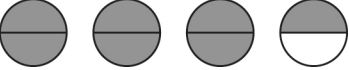
d) $2\frac{1}{4}$ e) $1\frac{3}{12}$ or $1\frac{1}{4}$ f) $4\frac{2}{5}$

Extra Practice 2 – Master 5.25

- a) 

b) 

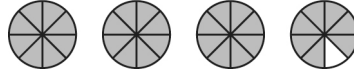
c) 

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

e) $1\frac{3}{4}$ f) $7\frac{1}{2}$ g) $5\frac{2}{5}$ h) $4\frac{2}{4}$
- a) $\frac{13}{4}$ b) $\frac{15}{8}$ c) $\frac{13}{5}$ d) $\frac{9}{2}$

e) $\frac{5}{3}$ f) $\frac{31}{6}$ g) $\frac{72}{7}$ h) $\frac{17}{5}$
- a) 32 b) $\frac{27}{8}$ or $3\frac{3}{8}$ c) $\frac{5}{8}$
- He has more than \$2.

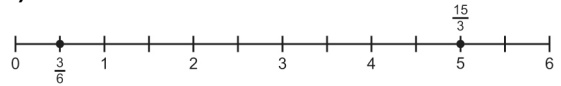
- She can serve 31 people.



- You will need 2 more quarters.

Extra Practice 3 – Master 5.26

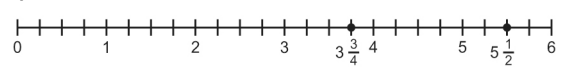
- a)



I drew a number line in halves.

$\frac{15}{3} > \frac{3}{6}$ because it is farther to the right on the number line.

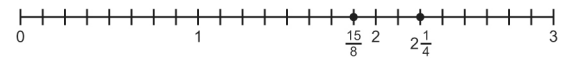
- b)



I drew a number line in quarters.

$5\frac{1}{2} > 3\frac{3}{4}$ because it is farther to the right on the number line.

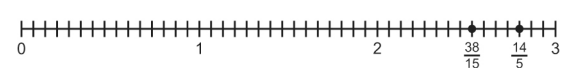
- c)



I drew a number line in eighths.

$2\frac{1}{4} > \frac{15}{8}$ because it is farther to the right on the number line.

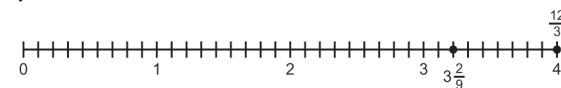
- d)



I drew a number line in fifteenths.

$\frac{14}{5} > \frac{38}{15}$ because it is farther to the right on the number line.

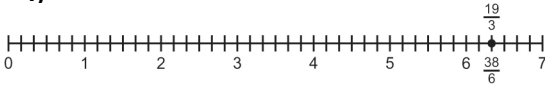
- e)



I drew a number line in ninths.

$3\frac{2}{9} < \frac{12}{3}$ because it is farther to the left on the number line.

f)



I drew a number line in sixths.

$\frac{38}{6} = \frac{19}{3}$ because they mark the same position on the number line.

2. a) I know that $\frac{14}{2} = 7$, so it is the greatest.
I also know that $\frac{3}{4} > \frac{1}{6}$. So, the numbers in order from least to greatest are:
 $3\frac{1}{6}, 3\frac{3}{4}, \frac{14}{2}$
- b) I wrote the numbers with denominator 8.
 $1\frac{7}{8} = \frac{15}{8}; \frac{7}{4} = \frac{14}{8}$
So, the numbers in order from least to greatest are: $\frac{13}{8}, \frac{7}{4}, 1\frac{7}{8}$
- c) I wrote the numbers with denominator 8.
 $2\frac{3}{4} = \frac{11}{4} = \frac{22}{8}; 2\frac{1}{2} = \frac{5}{2} = \frac{20}{8}$;
So, the numbers in order from least to greatest are: $\frac{17}{8}, 2\frac{1}{2}, 2\frac{3}{4}$
- d) I wrote $\frac{12}{16}$ in simplest form as $\frac{3}{4}$.
Then I wrote the numbers with denominator 12.
 $\frac{13}{3} = \frac{52}{12}; \frac{9}{2} = \frac{54}{12}; \frac{12}{16} = \frac{9}{4} = \frac{27}{12}$
So, the numbers in order from least to greatest are: $\frac{12}{16}, \frac{13}{3}, \frac{9}{2}$
- e) I wrote the numbers with denominator 16.
 $\frac{17}{4} = \frac{68}{16}; 4\frac{3}{8} = \frac{35}{8} = \frac{70}{16}$
So, the numbers in order from least to greatest are: $\frac{19}{16}, \frac{17}{4}, 4\frac{3}{8}$
- f) I wrote the fractions in simplest form first.
 $\frac{9}{6} = \frac{3}{2}; 1\frac{6}{18} = 1\frac{1}{3}; \frac{34}{36} = \frac{17}{18}$
 $\frac{34}{36}$, or $\frac{17}{18}$, is the only fraction less than 1, so it is the least.
I wrote the other two numbers with denominator 6.
 $\frac{9}{6}; 1\frac{6}{18} = 1\frac{1}{3} = 1\frac{2}{6} = \frac{8}{6}$
So, the numbers in order from least to greatest are: $\frac{34}{36}, 1\frac{6}{18}, \frac{9}{6}$
3. a) $\frac{17}{3}, 2\frac{1}{3}, \frac{7}{9}$ b) $\frac{9}{2}, 1\frac{1}{2}, \frac{3}{4}$
c) $4\frac{1}{2}, \frac{7}{4}, \frac{15}{16}$ d) $3\frac{5}{8}, 3\frac{1}{4}, \frac{9}{4}$
e) $3\frac{2}{3}, \frac{20}{9}, \frac{19}{18}$ f) $3\frac{1}{2}, \frac{9}{3}, \frac{10}{4}$

4. Dmytro drank more orange juice.

$$1\frac{1}{2} = \frac{3}{2} = \frac{6}{4}$$

$$\frac{7}{4} > \frac{6}{4}$$

5. $7\frac{2}{3} = \frac{23}{3} = \frac{92}{12}$

$$\frac{92}{12} > \frac{65}{12}$$

So, Henrietta is older.

6. $2\frac{3}{4} = \frac{11}{4}$

$$\frac{5}{2} = \frac{10}{4}$$

$$\frac{11}{4} > \frac{10}{4}$$

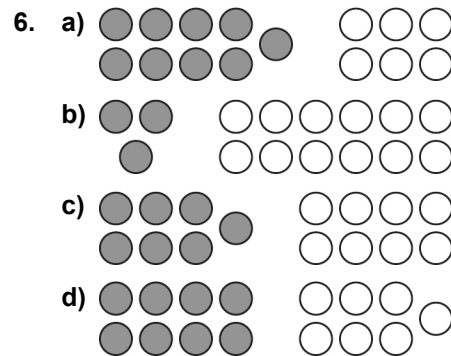
So, Melodie watched more TV.

7. $\frac{5}{2} = 2\frac{1}{2}$

So, Clara has enough sugar.

Extra Practice 4 – Master 5.27

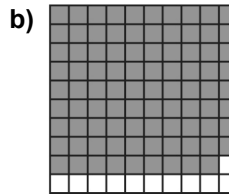
1. a) 6 : 7 b) 7 : 6
c) 6 : 13 d) 7 : 13
2. Answers will vary.
3. Answers will vary.
4. a) apples to pears b) pears to fruit
c) apples to fruit d) pears to apples
5. I would add up the numbers of students in all the classes.
I would count the teachers.
The ratio of students to teachers would be the total number of students to the total number of teachers.



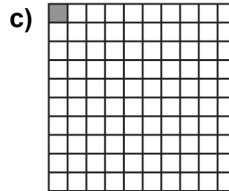
7. Sample answer:
5 : 7 5 : 12 12 : 5
7 : 5 7 : 12 12 : 7

Extra Practice 5 – Master 5.28

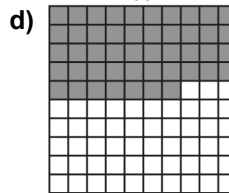
- | | |
|---------------------|--------------------|
| a) 4 : 4, 8 : 8 | b) 8 : 14, 16 : 28 |
| c) 12 : 16, 18 : 24 | d) 2 : 12, 3 : 18 |
| e) 10 : 4, 15 : 6 | f) 12 : 4, 18 : 6 |
| g) 27 : 9, 18 : 6 | h) 8 : 10, 12 : 15 |
| i) 16 : 6, 24 : 9 | |
| j) 18 : 24, 27 : 36 | |
| k) 6 : 8, 12 : 16 | l) 2 : 16, 3 : 24 |
- | | |
|------------------------|-------------|
| a) 50 : 100 or 25 : 50 | b) 14 : 50 |
| c) 90 : 50 | d) 50 : 30 |
| e) 50 : 150 | f) 50 : 35 |
| g) 50 : 8 | h) 50 : 300 |
- 8 : 6, 12 : 9, 16 : 12, 20 : 15, 24 : 18, 28 : 21, 32 : 24, 36 : 27, 40 : 30, 44 : 33, 48 : 36
- 3 L strawberry juice and 6 L orange juice
- | |
|--|
| a) mumble, sentences, pepper |
| b) ratio: 3 vowels to 5 consonants: giraffes, baseball, elephant |
- 16 fish and 4 snails
- | | |
|-----------------------|------------|
| a) 4 : 30 or 30 : 225 | b) 30 : 48 |
| c) 12 : 30 | d) 30 : 80 |
| e) 60 : 30 or 30 : 15 | |



0.89, $\frac{89}{100}$



0.01, $\frac{1}{100}$



0.47, $\frac{47}{100}$

- | |
|---|
| a) The grid should show 34 red squares, 17 green squares, 26 yellow squares, and 23 orange squares. |
|---|

red: $\frac{34}{100}$, 0.34

green: $\frac{17}{100}$, 0.17

yellow: $\frac{26}{100}$, 0.26

orange: $\frac{23}{100}$, 0.23

- b) 23%

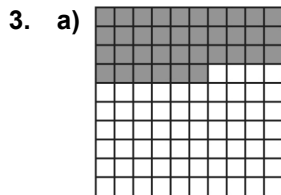
- | | |
|--------------|--------------|
| a) 37%, 0.37 | b) 28%, 0.28 |
| c) 13%, 0.13 | d) 93%, 0.93 |

- | | |
|----------------------------|----------------------------|
| a) $\frac{12}{100}$, 0.12 | b) $\frac{2}{100}$, 0.02 |
| c) $\frac{81}{100}$, 0.81 | d) $\frac{65}{100}$, 0.65 |

- 8% is not water.
The whole watermelon is 100%.
 $92 + 8 = 100$

Extra Practice 7 – Master 5.29

- | | |
|---------------------------------|--------------------------------|
| a) $\frac{12}{100}$, 0.12, 12% | b) $\frac{20}{100}$, 0.2, 20% |
| c) $\frac{33}{100}$, 0.33, 33% | d) $\frac{8}{100}$, 0.08, 8% |
| e) $\frac{91}{100}$, 0.91, 91% | f) $\frac{70}{100}$, 0.7, 70% |
- | | |
|---------------------------------|---------------------------------|
| a) $\frac{88}{100}$, 0.88, 88% | b) $\frac{80}{100}$, 0.8, 80% |
| c) $\frac{67}{100}$, 0.67, 67% | d) $\frac{92}{100}$, 0.92, 92% |
| e) $\frac{9}{100}$, 0.09, 9% | f) $\frac{30}{100}$, 0.3, 30% |



0.36, $\frac{36}{100}$

Extra Practice 8 – Master 5.30

1. a) 18%, 0.18 b) 73%, 0.73
c) 4%, 0.04 d) 26%, 0.26
e) 30%, 0.3 f) 35%, 0.35
g) 24%, 0.24 h) 58%, 0.58

2. a) $\frac{21}{100}$, 21% b) $\frac{68}{100}$, 68%
c) $\frac{9}{100}$, 9% d) $\frac{24}{100}$, 24%
e) $\frac{3}{100}$, 3% f) $\frac{75}{100}$, 75%
g) $\frac{15}{100}$, 15% h) $\frac{99}{100}$, 99%

3. a) 25% b) 50% c) 30% d) 50%
e) 16% f) 40% g) 50% h) 75%

4. a) 0.19, $\frac{19}{100}$ b) 0.6, $\frac{3}{5}$
c) 0.35, $\frac{7}{20}$ d) 0.92, $\frac{23}{25}$
e) 0.8, $\frac{4}{5}$ f) 0.15, $\frac{3}{20}$
g) 0.43, $\frac{43}{100}$ h) 0.81, $\frac{81}{100}$

5. a) 75% b) 50% c) 70%

6. a) 25% b) 70% c) 50%