

Lesson 2

Practice 2.1

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- (A) ① 7.996 ④ 5.85
② 10.508 ⑤ 7.426
③ 12.26 ⑥ 2.11
⑦ 18.094
⑧ 5.117
⑨ 21.32

- (B) ⑩ A
⑪ C
⑫ A

Practice 2.2

-
- ① 2.65 ④ 0.52 ⑦ 8.75 ⑩ 24
② 12.8 ⑤ 3.6 ⑧ 3.375 ⑪ 14.2
③ 0.496 ⑥ 1.04 ⑨ 9.6681 ⑫ 15800

- ⑬ # 0.86 => B

- ⑭ B

Lesson 3 : Practice 3 :

Decimals:

$$\textcircled{A} \quad \textcircled{1} \quad \frac{3}{5} \quad \textcircled{2} \quad \frac{2}{4} = \frac{1}{2} \quad \textcircled{3} \quad \frac{2}{3}$$

$$\textcircled{B} \quad \textcircled{4} \quad 2\frac{1}{3} \quad \textcircled{5} \quad 3\frac{1}{2} \quad \textcircled{6} \quad 3\frac{3}{4} \quad 1\frac{1}{4} \\ = 2\frac{1}{3} =$$

$$\textcircled{7} \quad 5\frac{2}{3}$$

$$\textcircled{8} \quad 18\frac{1}{5}$$

$$\textcircled{9} \quad 4 \quad \textcircled{10} \quad \frac{47}{9} = \frac{5.22}{1} \quad \textcircled{11} \quad \frac{6}{25} = \frac{0.24}{1.00}$$

$$\textcircled{12} \quad \frac{4}{5} = \frac{4.8}{6.0}$$

$$\textcircled{13} \quad \frac{3}{8} = \frac{15}{40}$$

$$\textcircled{14} \quad \frac{13}{15} \\ \textcircled{15} \quad \frac{6}{9} \div \frac{3}{3} = \frac{2}{3} \\ \textcircled{16} \quad \frac{60}{90} \div \frac{10}{10} =$$

$$\textcircled{17} \quad A \quad \textcircled{18} \quad C$$

Lesson 4:

Geckom B

- 26 A 28 A
27 C 29 C

14.2

- B
 ⑩ B
 ⑪ B

Lesson 5:

- ① B ② D

A
(88)

- B
2

- 21

(5) B

- 5

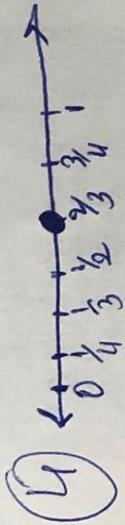
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lesson 6, practice from a₁ - a₈

① C

② D

③ C



⑤ 4.625

⑥ 9.33

⑦ $3\frac{1}{3}$

⑧ $11\frac{5}{6}$

Section 3: RATION & PROPORTION

Section A

- (1) $24:6 \Rightarrow 4:1$ (4) $12:30 \Rightarrow 2:5$
(2) $250:150 \Rightarrow 1:6$ (5) $336:14 \Rightarrow 24:1$
(3) $180:15 \Rightarrow 12:1$

(B)

- (6) $180:90 \Rightarrow 9:11$ (7) B ($\frac{1}{3}$)
(A)
(11) $180:60 \Rightarrow 3:10$ (B)

Practice level

$$\text{A} \quad (1) x = \frac{2.18}{3} = 12 \quad (3) x = \frac{5.3}{6} = 0.5 \quad (5) x = \frac{7.11^2}{4} = 371$$
$$(2) x = \frac{81.5}{3} = 45 \quad (4) x = \frac{8.15}{2} = 60$$

(19) B

(B) (17) B

(19) C

Practice 3.0.1

Lesson 22

A) Solve.

$$1) 8 + (-3) = 5 \quad 9) -7 - (-3) = -4 \quad 17) -11$$

$$2) 50 - 5 = 45 \quad 10) -4 + 6 = 2 \quad 18) 11$$

$$3) 11 - (-2) = 13 \quad 11) -15 - 7 = -22 \quad 19) 10$$

$$4) -1 + 2 = 1 \quad 12) 36 - 4 = 32 \quad 20) 75$$

$$5) -4 - (-5) = 1 \quad 13) -60 - (-10) = -50 \quad 21) 12$$

$$6) 8 - (-2) = 10 \quad 14) -5 + 6 = -11 \quad 22) 8$$

$$7) 6 - 9 = -3 \quad 15) 12 + 13 = 25 \quad 23) -1$$

$$8) 2 + 11 = 13 \quad 16) -5 + 20 = -35 \quad 24) -13$$

B) Choose.

25) B

26) C

Practice 3.0.2

A) Solve

$$\begin{array}{l} 1) \rightarrow 10 \\ 2) \rightarrow -11 \\ 3) \rightarrow -4 \\ 4) \rightarrow 13 \\ 5) \rightarrow -10 \end{array} \quad \begin{array}{l} 6) \rightarrow 3 \\ 7) \rightarrow -3 \\ 8) \rightarrow -5 \\ 9) \rightarrow 2 \\ 10) \rightarrow -5 \end{array} \quad \begin{array}{l} 11) \rightarrow -48 \\ 12) \rightarrow -3 \\ 13) \rightarrow -15 \\ 14) \rightarrow -6 \\ 15) \rightarrow 6 \end{array}$$

B) Solve

$$1) -20 \quad 10) 660$$

$$2) 12 \quad 20) 20$$

$$3) -300 \quad 21) -1$$

$$4) -120 \quad 22) 0$$

$$5) -15 \quad 23) 0$$

$$6) -5 \quad 24) -8$$

c)
28) B
29) C
30) C

Practice 4) Lesson 4

A) Solve.

$$\begin{array}{r} 1) 24 \\ 2) 1 \\ 3) 29 \\ 4) 2 \end{array}$$

$$\begin{array}{r} 5) 7 \\ 6) 20 \\ 7) 14 \\ 8) 55 \end{array}$$

B) Choose.

- 16) C
17) B
18) C

$$\begin{array}{r} 13) 360 \\ 14) 4 \\ 15) 6 \\ 16) 80 \end{array}$$

$$\begin{array}{r} 17) 77 \\ 18) 77 \\ 19) 80 \end{array}$$

Practice 5

Lesson 5

A) Find the absolute values.

$$1 \rightarrow 18 \quad 4 \rightarrow 95$$

$$2 \rightarrow 107 \quad 5 \rightarrow 7086$$

$$3 \rightarrow 423 \quad 6 \rightarrow 18$$

B) Find solutions.

$$13 \rightarrow 11 \quad 17 \rightarrow -91$$

$$14 \rightarrow -156 \quad 18 \rightarrow 0$$

$$15 \rightarrow 156 \quad 19 \rightarrow 600.0$$

$$16 \rightarrow 3 \quad 20 \rightarrow -7$$

c) Word problems

25) D

26) D

27) C

28) A

Lesson 7

Practice 7

A) Solve:

$$\begin{array}{l} 5) 9 \\ 7) 75 \\ 9) 3 \\ 11) 13 \end{array}$$

$$5) 9 \quad 7) 75 \\ 8) \frac{1}{16} = 0.0625 \quad 9) 1$$

B) Solve

$$\begin{array}{ll} 1) 5\sqrt{6} \approx 7.26 & 1) 1 \\ 2) 12.96 & 12) 8000 \\ 3) 1.296 & 14) \frac{1}{16} = 0.0625 \\ 4) 7.54 \approx 10 & 16) 10.99 \\ 5) 15 \approx 20 & 17) \frac{1}{10} = 0.1 \\ 6) 1000000000 & 18) 1000000000 \\ 7) 256 & 19) 1 \end{array}$$

$$15) 2\sqrt{11} \approx 15.56$$

$$16) 10.99 \approx 10$$

$$17) \frac{1}{10} = 0.1$$

$$18) 1000000000 \approx 10^9$$

C) choose

21) C

22) A

Practice 8

A) Scientific notation

- 1) $2.3 \cdot 10^3$
- 2) $4.2 \cdot 10^{-5}$
- 3) 1.2×10^{-7}

(B) Convert

- 4) $1.432 \cdot 10^0$
- 5) $3.6 \cdot 10^7$
- 6) $9.5 \cdot 10^{-3}$

(C) Answer

- 7) $5.8 \cdot 10^{-9}$
- 8) $1.5 \cdot 10^{11}$
- 9) $9.9 \cdot 10^{-10}$

- 10) 0.05173
- 11) $7,300,000$
- 12) $85,910,000$
- 13) 0.000017
- 14) 0.00956

- 15) $916,000$

(D) Answer

- 16) $2,670,000,000$ miles

- 17) $0.3 \cdot 10^9$ m/s

- 18) $2.35 \cdot 10^4$ miles

- 19) ~~1.0000000015~~

(E) Answer

20) B

21) C

Lesson 9

- 4) C
5) D
6) A

- Prac hile 9. 2
4) C

2) B

3) B

Lesson 10

(A)

- ① $\frac{d}{t} = \frac{r}{1}$ $\Rightarrow d \cdot 1 = r \cdot t \Rightarrow r = \frac{d}{t}$
- ② Solve for distance \Rightarrow formula: $d = rt$
- ③ Solve for time \Rightarrow formula: $t = \frac{d}{r}$
- ④ Solve for price per unit $\Rightarrow r = \frac{c}{n}$
- ⑤ Solve for cost $\Rightarrow c = nr$
- ⑥ Solve for number of units $\Rightarrow n = \frac{c}{r}$

- ⑦ \$48
⑧ \$36
⑨ 5
⑩ \$2
⑪
⑫ 180 miles
⑬ 200 miles
⑭ 1 hour
⑮ 90 miles/hour
⑯ 5 hours

(B)

LESSON 6

Section 2 : Decimal Basics

Lesson 1 : A

① 3.8

② 5.907 → 6

③ 0.43

B

④ 0.15

⑤ 8.1

⑥ 2.714

⑦ 0.08

⑧ 1.85

C

⑨ 0.667

⑩ 1.029

⑪ 4.68

⑫ 0.14

⑬ 1.85

⑭ 0.1136

⑮ 4.52

⑯ 0.8

⑰ 0.8023

⑱ 0.803

⑲ 0.823

D

E

F

G