

Explore the Secrets of Math Level 4 Book 2 Answers

Page 1-3

(1)
 $\frac{3}{4}$ Inches, 6 $\frac{1}{2}$ feet, 21 yard, 6500 miles

Page 1-4

2 inches, 3 feet, 6 $\frac{1}{2}$ feet, 2 yards

10 yards, 200 yards, 4 $\frac{3}{8}$ inches, 5 yards, 6 inches, 2 yards

(2)

1,760, 3
 12, 3,520
 6, 24
 36, 5,280
 9, 36
 $\frac{1}{1,760}$, $\frac{1}{3}$
 $\frac{1}{12}$, $\frac{2}{1760}$
 $\frac{2}{3}$, $\frac{2}{12}=\frac{1}{6}$
 $\frac{3}{12}$, $\frac{3}{1,760}$
 1, $\frac{6}{12}=\frac{1}{2}$
 7,040, 15
 84, 12,320
 15, 96
 108, 7,040
 18, 10,560

Page 1-5

(1)
 sample: centimeter,meters,meters, kilometers

centimeter, centimeter, meters, meters

meters, meters, centimeters, meters, centimeters, meters

(2)

sample: 1,000, 100
 10, 2,000
 200, 20

Page 1-6

30, 3,000
 300, 30
 0.001, 0.01
 100, 0.002
 0.02, 0.2
 0.3, 0.003
 0.00003, 0.3
 0.005, 0.08
 0.7, 0.006
 0.09, 0.8
 0.6, 0.1

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0.1, 1
 0.5, 0.004
 0.00007, 0.9
 8,000, 500
 70, 6,000
 900, 90
 40, 8,000
 600, 70

Page 1-7

0.6214, 1.8642
 4.3498, 9.321
 1.2428, 3.7284
 5.5926, 4.9712
 2.4856, 5.5926

(4)

1,094, 16,410
 2,188, 14,222
 8,752, 9,846
 4,376, 7,658
 6,564, 3,282
 5,470, 10,940

(5)

3,282, 13,128
 22,974, 29,538
 19,692, 26,256
 9,846, 6,564
 16,410, 32,820

(6)

39,384, 157,536
 275,688, 354,456
 236,304, 315,072
 118,152, 78,768
 196,920, 393,840

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1,094, 3,282
 5.47, 9.846
 6.564, 4.376
 8.752, 7.658
 2.188, 15.316

(8)

3.282, 9.846
 16.41, 13.128
 22.974, 19.692
 6.564, 42.666
 26.256, 29.538

(9)

39.38, 118.14
 196.9, 157.52
 257.66, 236.28
 78.76, 511.94
 315.04, 354.42

(10)

0.3938, 1.5752
 1.969, 6.6946

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3.1504, 1.1814
 3.5442, 2.3628
 2.7566, 0.7876

Page 1-11

(11)
 1.6093, 6.4372
 8.0465, 27.3581
 12.8744, 4.8279
 14.4837, 9.6558
 11.2651, 3.2186

(12)

1609.3, 6437.2
 8046.5, 17358.1
 12874.4, 4827.9
 14483.7, 9655.8
 11265.1, 3218.6

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(13)
 160,930, 643,720
 804,650, 2,735,810
 1,287,440, 482,790
 1,448,370, 965,580
 1,126,510, 321,860

(14)

0.914, 3.656
 4.57, 15.538
 7.312, 2.742
 8.226, 5.484
 6.398, 1.828

Page 1-13

(15)
 914, 3,656
 4,570, 15,538
 7,312, 2,742
 8,226, 5,484
 6,398, 1,828

(16)

0.3048, 1.2192
 1.524, 5.1816
 2.4384, 0.9144
 2.7432, 1.8288
 2.1336, 0.6096

(17)

30.48, 121.92
 152.4, 518.16
 243.84, 91.44
 274.32, 182.88
 213.36, 60.96

(18)

0.0254, 0.1016
 0.127, 0.4318
 0.2032, 0.0762
 0.2286, 0.1524
 0.1778, 0.050

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(1)
2.54, 10.16
12.7, 43.18
20.32, 7.62
22.86, 15.24
17.78, 5.08

Page 1-16

(1)
42, 54
5 ½, 22

Page 1-17

94, 5
12, 12
24, 2.8

Page 1-18

(1)
16, 9
17, 12

Page 1-19

The blue part = $3/2 = 1\frac{1}{2}$, $4/2 = 2$
 $1\frac{1}{2}$, $1\frac{1}{2}$

Page 1-20

7, 10
the white part = 8
the blue part = 1
the brown part = 3
the pink part = 2
(3)
 $10\frac{1}{2}$

Page 1-21

(1)
16 inch²
16 feet²
16 yards²
16 mile²
16 m²
16 km²
16 cm²

Page 1-22

(2)
d, d
b, c
d, c
d, d
d, d
d, d
c, a

Page 1-23

3.78, 0.26
4, ¼
2, ½
2, ½

0.52, 1.04
1.3, 1.82
7.56, 15.12
18.9, 26.46
0.65, 20.79
1.43, 24.57

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1.90, 5.7
2.85, 6.65
4.2, 8.4
9.45, 7.35
5.225, 3.675
7.125, 4.725

1, 4
2.5, 4.5
4, 12
10, 18
1.25, 9
2.75, 19

Page 1-25

4, 2
 $1\frac{1}{2}$, $3\frac{1}{2}$
4, 8
10, 14
 $1\frac{1}{4}$, 11
 $2\frac{3}{4}$, 13

3.78, 4, 8, 16
22.68, 24, 48, 96
 $\frac{1}{2}$, $\frac{1}{4}$, 0.4725, 0.12285
32, 48
29.12, 12.48
 $1\frac{1}{2}$, 72
25, 1
0.375, 0.875

Page 1-26

C
D

C
B
C
C
D
D
A

Page 1-27

C
D

D
D
C
B
C
D

Page 1-28

C
D

C
B
A
C
C
B

Page 1-29

72
72
45
58
102
73
95
30
65
88
92
121
182

Page 1-30

A
D
A
B
A
C
D
B
B

Page 2-3

38
285
288
376

Page 2-4

145
375

Page 2-5

1765
1485
2667

Page 2-6

No
Yes
Yes

Page 2-8

9,9,9,9,9,9,9,9,9,9
19, 17, 15, 13, 11, 9, 7, 5, 3, 1, 0, 0
0,1,2,3,4,5,6,7,8,9,7,2
0,0,0,0,0,0,0,0,0,1,3

4,4,4,4,4,4,4,4,4,4,4
20,18,16,14,12,10,8,6,4,2,15
0,1,2,3,4,5,6,7,8,9,0
0,0,0,0,0,0,0,0,0,1

4,4,4,4,4,4,4,4,4,4,4

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4,4,4,4,4,4,4,4,4,4,4
13,11,9,7,5,3,1,0,0,0
1,2,3,4,5,6,7,0,5,10
1,1,1,1,1,1,1,1,4,2,0

Page 2-9

30 books
32 books
54 books
90 books

Page 2-11

30
Gina made 10 flowers per day
Her mom made 20 flowers per day

40

David planted 10 flowers per day.
His dad planted 30 flowers per day.

112

28 bookmarks per day
84 bookmarks per day

180

Kathy picked 60 strawberries per day
Alyssa picked 120 strawberries per day

Page 2-13

16
22,14,12

21

27,24,12

28

third tree = 21
second tree = 19
first tree = 44

31

first pond = 36
second pond = 30
third pond = 27

Page 2-15

2200 oranges before
66 apples before
44 books before
110 stickers before

Page 2-17

Day 1: Half of the books were sold
Day 2: 100 new books arrived
Day 3: 12 plus half the remaining books were sold. Three times the remaining books equals 1500.

1500

515

1030

930

930

1860

2640

There were 2640 books before the first school day.

Page 2-19

Action 4: pour juice from B into A, A was doubled and A has 3 times as much as B.

Action 3: Pour juice from A into B, and double the juice in B.

Action 2: Poured some juice from cup B to cup C.

Action 1: Poured some juice from cup A to an empty cup C.

30

14 oz.

$\frac{1}{2}$ oz.

1. Cup B had 4 oz. Cup A had 12oz.

2. Cup A had 6oz. Cup B had 10oz.

Page 20-20

(2)

Action 4: pour juice from B into A. A was doubled and A has 3 times as much as B.

Action 3: pour juice from A into B and double the juice in B.

Action 2: poured some juice from cup B to cup C.

Action 1: poured some juice from cup A to an empty cup C.

60

28oz., 32oz.

1. Cup B had 8 oz.

Cup A had 24 oz.

2. Cup A had 12 oz.

Cup B had 20 oz.

Cup B had 10oz.

Cup A had 22 oz.

Action 1: from A to C: 30-22=8oz.

Action 2: from B to C: 30-10=20oz.

Page 2-21

There are 3 ways from Los Angeles to Portland

There are 3 ways from Washington DC to Boston

Page 2-22

There are 6 different ways to get from CA to New Mexico.

Page 2-23

She can have 15 different combinations of food.

She can have 24 different combinations of food.

There are 9 different ways from A to C

There are 9 different ways from A to C

Page 2-24

There are 10 different ways

There are 18 different ways

There are 25 different ways

There are 30 different ways

Page 2-28

P3, P1, P1

P4, P1, P1

P3, P1, P2

P4, P1, P2

P3, P1, P3

P4, P1, P3

P3, P1, P4

P4, P1, P4

P3, P2, P1

P4, P2, P1

P3, P2, P2

P4, P2, P2

P3, P2, P3

P4, P2, P3

P3, P2, P4

P4, P2, P4

P3, P3, P1

P4, P3, P1

P3, P3, P2

P4, P3, P2

P3, P3, P3

P4, P3, P3

P3, P3, P4

P4, P3, P4

P3, P4, P1

P4, P4, P1

P3, P4, P2

P4, P4, P2

P3, P4, P3

P4, P4, P3

P3, P4, P4

P4, P4, P4

There are 64 possible combinations

There are 125 possible combinations

There are 216 possible combinations.

P1 ----

Jessica P1 David P1, P2, P3, P4, P5

Jessica P2 David P1, P2, P3, P4, P5

Jessica P3 David P1, P2, P3, P4, P5

Jessica P4 David P1, P2, P3, P4, P5

Jessica P5 David P1, P2, P3, P4, P5

P2 ----

Jessica P1 David P1, P2, P3, P4, P5

Jessica P2, David P1, P2, P3, P4, P5

Jessica P3, David, P1, P2, P3, P4, P5

Jessica P4, David, P1, P2, P3, P4, P5

Jessica P5, David P1, P2, P3, P4, P5

P3 ----

Jessica P1 David P1, P2, P3, P4, P5

Jessica P2 David P1, P2, P3, P4, P5

Jessica P3, David P1, P2, P3, P4, P5

Jessica P4, David P1, P2, P3, P4, P5

Jessica P5, David P1, P2, P3, P4, P5

P4 ----

Jessica P1 David P1, P2, P3, P4, P5

Jessica P2 David P1, P2, P3, P4, P5

Jessica P3 David P1, P2, P3, P4, P5

Jessica P4, David P1, P2, P3, P4, P5

Jessica P5, David P1, P2, P3, P4, P5

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P5----

Jessica P1, David P1,P2,P3,P4,P5

Jessica P2, David P1,P2,P3,P4,P5

Jessica P3, David P1,P2,P3,P4,P5

Jessica P4, David P1,P2,P3,P4,P5

Jessica P5, David P1,P2,P3,P4,P5

Five

There are 125 different programs.

Exercise 2-30

55, 56, 65, 66 There are four different numbers.

Page 2-31

3,0,0 3,0,0 5,0,0

3,0,3 4,0,3 5,0,3

3,0,4 4,0,4 5,0,4

3,0,5 4,0,5 5,0,5

3,3,0 4,3,0 5,3,0

3,3,3 4,3,3 5,3,3

3,3,4 4,3,4 5,3,4

3,3,5 4,3,5 5,3,5

3,4,0 4,4,0 5,4,0

3,4,3 4,4,3 5,4,3

3,4,4 4,4,4 5,4,4

3,4,5 4,4,5 5,4,5

3,5,0 4,5,0 5,5,0

3,5,3 4,5,3 5,5,3

3,5,4 4,5,4 5,5,4

3,5,5 4,5,5 5,5,5

8,000,000

There are 8,000,000 different numbers of phone numbers.

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There are 28 different ways.

ABCD,ABDC,ACBD,ACDB,ADBC,

ADCB,

BACD,BADC,BCAD,BCDA,BDAC,

BDCA,CABD,CADB,CBAD,CBDA,CDA

B,CDBA,DABC,DACB,DBAC,DBCA,DC

AB,DCBA,

There are 6 different numbers.

456,546,645,465,564,654

There are 24 different ways

4567,4576,4657,4675,4756,4765,5467,

5476,5647,5674,5746,5764,6457,6475,

6547,6574,6754,6745,7456,7465,7546,

7564,7645,7654

Page 2-33

There are 18 choices

4,0,5 5,0,4 6,0,4

4,5,6 5,4,0 6,4,0

4,0,6 5,0,6 6,0,5

4,6,0 5,6,0 6,5,0

4,5,6 5,4,6 6,4,5

4,6,5 5,6,4 6,5,4

Page 2-34

There are 12 different odd numbers.

3465,4635,6345,3645,4653,6435,4365,

5463,6453,4563,5643,6543,

Page 2-34

There are 60 different even numbers.

346,348,354,356,358,364,368,374

,376,378,384,386,

434,436,438,454,456,458,468,476

,478,486,

534,536,538,546,548,564,568,574

,576,578,584,586

634,638,648,654,658,674,678,684

734,736,738,746,748,754,756,758

,764,768

834,836,846,854,856,864,874,876

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The shortest paths are AtoBtoE

AtoDtoE,

AtoDtoG,CtoFtoG,CtoDtoE,CtoD toG

There are 6 shortest paths.

There are 6 shortest paths. The

paths are:

AtoBtoE,AtoDtoE,AtoDtoG,CtoFtoG,CtoDtoG,CtoDtoE

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There are 10 shortest paths

Ato BtoCtoG

AtoBtoFtoG

AtoBtoFtoJ

AtoEtoFtoG

AtoEtoFtoJ

AtoEtoItoJ

DtoEtoFtoG

DtoEtoFtoJ

DtoEtoItoJ

DtoHtoItoJ

There are 10 shortest paths.

AtoBtoCtoG

AtoBtoFtoG

AtoBtoFtoJ

AtoEtoFtoG

AtoEtoFtoJ

DtoEtoFtoG

DtoEtoFtoJ

DtoEtoItoJ

DtoHtoItoJ

Page 2-40

ABCDIN

ABCDHIN

ABCHMN

ABCHMR

ABCHIN

ABGHMN

ABGHMR

ABGLMN

ABGLMR

ABGLQR

AFGHIN

AFGHMN

AFGHMR

AFGLMN

AFGLMR

AFGLQR

AFKLMN

AFKLMR

AFKLQR

AFKPQR

EFGHIN

EFGHMN

EFGHMR

EFGLMN

EFGLMR

EFGLQR

EFKLMN

EFKLMR

EFKLQR

EFKPQR

EJKLMN

EJKLMR

EJKLQR

EJKPQR

EJOPQR

Page 3-2

(2)

x=2,4

x=5,24,18

x=2,1,8

Page 3-3

1,5,6

2,5,7

3,5,8

4,5,9

5,5,10

6,6,12

a+6=7+6=13

Page 3-4

a+6=8+6=14

a+6=9+6=15

a+6=10+6=16

(3)

2+4=6, 3+4=7, 4+4=8, 5+4=9,

13+4=17, 15+4=19, 17+4=21,

18+4=23,21+4=25

34+4=38, 35+4=39, 36+4=40, 37+4=41,

38+4=42

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Page 3-4

(3)
 $x = 2, 2+4x$
 6

(4)
 $x, 5+5x$
 25

Page 3-5

(1)
 $7-5=2$
 $8-5=3$
 $9-5=4$
 $10-5=5$

(2)
 $11-5=6$

Page 3-6

$12-5=7$
 $13-5=8$
 $14-5=9$
 $15-5=10$

(3)
 $10-4=6, 12-4=8, 13-4=9, 14-4=10, 15-4=11$

$23-4=19, 25-4=21, 27-4=23, 29-4=25, 31-4=27$

$34-4=30, 35-4=31, 36-4=32, 37-4=33, 38-4=34$

(4)
 $60-20=40, 100-20=80, 120-20=100, 80-20=60, 40-20=20$

$60, 100, 120, 80, 40$
 variable
 $40, 80, 100, 60, 20$
 value

Page 3-7

$\$1.25 \times 2 = \2.5
 $\$1.25 \times 3 = \3.75
 $\$1.25 \times 4 = \5
 $\$1.25 \times 5 = \6.25
 $\$1.25 \times 6 = \7.5
 $\$1.25 \times 7 = \8.75
 $\$1.25 \times 8 = \10
 $\$1.25 \times 9 = \11.25
 $\$1.25 \times 10 = \12.5

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(2)
 $\$1.25, 1, \1.25
 $\$1.25, 2, \2.50
 $\$1.25, 3, \3.75
 $\$1.25, 4, \5
 $\$1.25, 5, \6.25
 $\$1.25, 6, \7.5
 $\$1.25, 7, \8.75
 $\$1.25, 8, \10.00
 $\$1.25, 9, \11.25
 $\$1.25, 10, \12.5

Page 3-8

(3)
 $12 \times 4 = 48, 13 \times 4 = 52, 14 \times 4 = 56, 15 \times 4 = 60$

$23 \times 5 = 115, 25 \times 3 = 125, 27 \times 5 = 135,$
 $29 \times 5 = 145, 31 \times 5 = 155$

$34 \times 6 = 204, 35 \times 6 = 210, 36 \times 6 = 216,$
 $37 \times 6 = 222, 38 \times 6 = 228$

$10 \times 7 = 70, 12 \times 7 = 84, 13 \times 7 = 91,$
 $14 \times 7 = 98, 15 \times 7 = 105$

Page 3-9

(1)
 $48, 4, 12$
 $48, 6, 8$
 $48, 8, 6$
 $48, 12, 4$
 $48, 16, 3$
 $48, 3, 16$
 $48, 24, 2$

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$48, 48, 1$
 (2)
 $48, 7, 6R6, 6, 6$
 $48, 9, 5R3, 5, 2$
 $48, 11, 4R4, 4, 3$
 $48, 13, 3R9, 3, 5$
 $48, 12, 4, 4,$
 $48, 24, 2, 2,$
 $48, 16, 3, 3,$

(3)
 $320-c$
 $546-c$
 $210-c$
 $187-c$
 y
 y
 $245/y$

Page 3-11

$188/y$
 $298/c$
 $326/c$
 $245/c$

(4)
 $5N$
 $9N$
 $2N$
 $12N$

Page 3-11

(5)
 $21+8+a+b+c$
 $6+12+x+y+2$
 $a+b+c$
 $x+y+2$
 $25-a$
 $41-b$

Page 3-12

$83-c$
 $x-4$
 $4-2$
 $5a, 17b$
 $23c, 200b$
 $2x3, a \quad 5b, 2$
 $3xaxb, 3xaxc$
 $a/4, 6/21$
 $x/25, 7/3$
 $75/x, 72/y$
 $88/a, 104/b$

(6)

$12+(a-2)$
 $78+(x-4)$
 $(x+13)-94$
 $(y+5)-35$
 $(x+a)-a$
 $a+3x11$
 $x+a+b$

Page 3-13

$X+(xx5)$
 $37-xy$
 $29-axb$
 $x-xz$

(7)

$x+(x-5)$
 $x+(x-6)$
 $x+(x-7)$
 $x+(x-8)$
 $y+y+9$
 $y+y+10$

Page 3-14

(1)
 $2x3=6$ miles
 $2x4=8$ miles
 $2x5=10$ miles
 $2x6=12$ miles
 $2xN=2N$ miles
 $2x7=27$ miles

Page 3-15

(2)
 $70t$
 $45t$
 $600t$
 $25t$
 $15t$

(3)

she drove $(4+3+7) \times 60 = 840$ miles

(4)

she drove 770 miles
 they drove 570 miles
 they drove 702.5 miles

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Page 3-17

(2)
300 miles, 6 hours
300, 6, 50 miles per hour

(3)
360 miles, 6 hours
360, 6, 60 miles per hour
(4)
400 miles, 8 hours
400, 8, 50 miles per hour

(5)
She drove $360/t$ miles in an hour

(6)
She drove $180/t$ miles in an hour.

(7)
The car travels $300/t$ miles per hour.
300, 5, 60
300, 6, 50

Page 3-18

$300+10=30$

(1)
150

(2)
S

Page 3-19

(2)
900, 300, 3 hours, $300 \times 3 = 900$

(3)
1200, 300, 4 hours, $300 \times 4 = 1200$

(4)
240, 60, 4 hours, $60 \times 4 = 240$

(5)
180, 30, 6 hours, $30 \times 6 = 180$

(6)
240, 30, 8 hours, $30 \times 8 = 240$

(7)
300, s

(8)
987, s

(9)
450, s

Page 3-20

(10)
it takes $450/s$ hours

10
15
30
45
90
5

Page 3-20

(11)
It takes $600/s$ hours

10
12
6
20

(12)
 $\$1.95x$

(13)
 $\$19.95x$

(14)
 $\$135.95x$

(15)
 $x/24$ dollars

(16)
 $x/145$ dollars

(17)
 $x/120$ dollars

(18)
There are $250/10 = 25$ cages

Page 3-22

(2)
x
 $83+x=87$, $87-23=4$

(3)
x
 $73+x=81$, $81-73=8$

(4)
x
 $43=38+x$, $43-38=5$

(5)
x

Page 3-23

$52=49+x$, $52-49=3$

(6)
 $45+x=76$, $x=76-45=31$
We can add 31 pounds to the whale box.

(7)
 $83+x=87$, $x=87-83=4$
We can add 4oz. to cup A

(8)
 $73+x=81$, $x=81-73=8$
We can add 8 kilograms to Box A

Page 3-23

(9)
 $43=38+x$, $x=43-38=5$
We can add 5 pounds to bucket B

(10)
 $39+x=47$, $x=47-39=8$
We can add 8 pounds to brown turkey's end.

Page 3-24

8
10
12
14
16
18
20
22
24
26

Page 3-25

$14 \times 2 = 28$

18 legs
24
30
36
42
48
54
60

Page 3-26

$11 \times 6 = 66$ legs

Page 3-27

2 robots
3
4
5
6
7
8
9
10
11
12

Page 3-28

-, divide
-, divide
-, divide
-, divide
+, x
+, x
+, x

Page 3-29

1, 3, 8
2, 4, 12
3, 5, 26
4, 10, 41
5, 11, 8
9, 12, 12
11, 15, 26
11, 17, 37

Explore the Secrets of Math Level 4 Book 2 Answers

Page 3-30

10, 2
5, 2
5, 3
5, 2
9, 3
9, 2
8, 3
9, 3

Page 3-31

32, 32
35, 150
1, 8
-, 2, 12
-, 3, 26
-, 4, 40
-, 5, 21
-, 9, 33
-, 11, 70
-, 11, 33
+, 3, 8
+, 4, 12
+, 5, 26
+, 10, 37
+, 11, 24
+, 12, 36
+, 15, 63
+, 17, 76
+, 32, 73
+, 100, 90

Page 3-32

1, 9, 15
2, 5, 10
3, 20, 11
4, 5, 9
5, 0, 2
6, 0, 8

Page 3-33

$38=12+x$, 26
 $65=56+x$, 9
 $23=19+x$, $23-19=4$
 $46=81-x$, 35
 $43=74-x$, 31
 $34=87-x$, 53
 $45=x-5$, 50
 $67=x+10$, 57
 $78=x-23$, 55
 $34=x+21$, 13
 $10+2x$, 5
 $25=5x$, 5
 $64=8x$, 8
 $6=x/6$, 36
 $4=x/9$, 36
 $7=x/7$, 49
71
8

Page 3-35

(1)
the number of red fish
There are 10 fish in all. There are 4 more yellow fish than red fish.
X
4, $4+x$
 x , $x+4$, 10
 $x+x+4=10$, $2x=6$, $x=3$
3, 7
 $x+x+4=3+3+4=10$

Page 3-35

(2)
The number of red fish.
There are 8 fish in all. There are 4 more fish than red fish.
X
4, $x+4$
 x , $x+4$, 8
 $x+x+4=8$, $2x+4$, $x=2$
2, 6
 $x+x+4=2+2+4=8$

Page 3-36

(3)
The number of brown rabbits.
There are 12 rabbits in all. There are 4 more white rabbits than brown rabbits.

X, the number of brown rabbits.
 $X+x+4=12$, $x=8/2=4$, $12-4=8$
There are 4 brown rabbits and 8 white rabbits.

(4)

The number of red birds.
There are 18 birds in all.
There are 8 more yellow birds than red birds.
X, the number of red birds
 $X+x+8=18$, $x=5$, $18-5=13$
There are 13 yellow birds and 5 red birds.

(5)

The number of black dogs.
There are 12 dogs in all.
There are 4 more brown dogs than black dogs.
X, the number of black dogs.
 $X+x+4=12$, $x=4$, $12-4=8$
There are 8 brown dogs and 4 black dogs.

Page 3-37

(1)
 x , the number of monkeys
 $x-5$, x
7, 12
(2)
 x , the number of ducks
 $x-5$, x
13, 18

Page 3-38

(3)
 x , the number of ducks
 $x-8$, x
12, 20
(4)
 x , the number of ducks
 $x-5$, x
12, 17
(5)
 x , the number of dogs
 $x-8$, x
9, 17
(6)
 x , the number of goats
 $x-2$, x
50, 52
Page 3-39
(1)
striped tigers, $x-5$
 $x+3$,
 x , $x-5$, $x+3$
check: $7+2+10=19$. The answer is correct.
X, $x-5$, $x+3$
7, 2, 10

Page 3-40

(2)
striped tigers, $x-2$
 $x+1$,
 x , $x-2$, $x+1$,
check: $4+2+5=12$. The answer is correct.
X, $x-2$, $x+1$
4, 2, 5

(3)

striped tigers, $x-4$
 $x+1$
 x , $x-4$, $x+1$
check: $8+4+9=21$. The answer is correct.
8, 4, 9

(4)

striped tigers, $x-10$
 $x+5$
 x , $x-10$, $x+5$
check: $17+7+22=46$. The answer is correct.
17, 7, 22

Page 3-41

(5)
zebras, $x-4$
 $x+1$
 x , $x-4$, $x+1$
check: $8+4+9=21$. The answer is correct.
8, 4, 9

(6)

zebras, $x-10$
 $x+5$,
 x , $x-10$, $x+5$
check: $17+7+22=46$. The answer is correct.
17, 7, 22

Explore the Secrets of Math Level 4 Book 2 Answers

Page 4-17	Page 5-3	Page 5-6
23,000	True	(5)
22,000, 10,000	True	true, Because $A > 21$, B is less than or equal to 21
8,000	True	(6)
33%	True	true $B > C$, $X > Y$, $Z = X - Y > 0$
23%	True	(7)
22%	True	false, $B > C$, $X < Y$
10%	True	
8%	True	
	True	
	True	Page 5-8
23%	True	True
22%	False	True
10%	False	True
8%	False	False
	False	True
Page 4-18	True	True
C	False	False
A	True	True
B	True	False
D	False	True
A	False	True
	False	False
		False
19%	Page 5-4	Page 5-9
22%	False	(1)
29%	False	1×3
13%	True	(2)
100%	False	1×7
	False	(3)
Page 4-19	True	1×19
D	True	(4)
D	True	1×16
D	True	2×8
	True	4×4
B	True	(5)
B	False	1×24
B	True	2×12
B	False	3×8
	False	4×6
A	False	(6)
A	True	1×45
C	True	3×15
A	False	5×9
Page 4-20	True	Page 5-10
A		(1)
A	Page 5-6	d
C	(1)	(2)
D	false, $12/14$ is not the lowest term	a
50%, 50%	(2)	(3)
50%, 50%	false, 52 is not the mixed number	d
75%, 75%	(3)	(4)
100%, 0%		d
		(5)
Page 4-21		c
(1)	(3)	Page 5-11
pick one of 15 possible red stars	true, They have both the same size and shape	(1)
pick one of 12 possible blue stars		b
pick one of 7 possible brown stars, 34		(2)
(2)	(4)	c
44 possible choices	false. If $A = 3, 2, 1$ and $B = 5, 6$, B doesn't equal A.	
(3)		
13 possible choices		

Explore the Secrets of Math Level 4 Book 2 Answers

Page 5-11

(1)
c, b

(3) b, d

Page 5-12

C
C
C
C
C

Page 5-13

C,d,a
D,b,b,
B,c,d

Page 5-14

Exercise 8

C
C
A
B
B
A

Page 5-15

Exercise 9

To add 1 hour
To add 1 hour and 10 minutes
To add 1 hour
To add 2 hours and 10 minutes
To add 1 hour and 50 minutes

Page 5-16

Exercise 10

90degrees
0
120
180/90