

# Explore the Secrets of Math Level 5 Book1 Answers

## Page 1 – 2:

- (1) 8, 6, 4  
7, 8, 9  
1, 0, 3  
9, 8, 7  
0, 0, 1

## Page 1 – 3:

- (1) 468, 591, 721, 300  
987, 145, 465, 000  
301, 678, 234, 921  
789, 301, 524, 691  
100, 300, 400, 500  
708, 491, 751, 380  
467, 745, 165, 080  
831, 698, 934, 923  
509, 321, 724, 621  
260, 370, 500, 550, 318, 611,  
000, 300  
227, 875, 000, 000  
131, 528, 000, 900  
959, 281, 000, 600  
470, 760, 100, 500  
768, 091, 621, 350  
387, 245, 685, 060  
101, 878, 934, 971  
589, 401, 254, 681

## Page 1 – 5:

- (2) 8, 6, 4  
7, 8, 9  
1, 0, 3  
9, 8, 7  
0, 0, 1

## Page 1 – 7:

- (1) 900,000,000,000+20,000,000,  
000+5000,000,000+10,000,000+2  
,000,000+700,000+40,000+600+7  
0+5,  
Nine hundred twenty billion, five  
hundred twelve million, seven  
hundred forty thousand, six  
hundred seventy five.

## Page 1 – 10:

- (3) 5,000,000,000  
50,000,000,000  
500,000,000,000  
500,000,000,005  
500,000,000,050  
500,000,000,500  
500,000,000,505  
550,000,000,550  
555,000,000,555

## Page 1 – 10 (Count.):

- 607,000,000,008  
900,000,000,000  
211,000,000,011  
313,000,000,003  
100,000,000,001  
100,000,000,011  
88,000,000,088  
951,000,722,683,144

## Page 1 – 13:

- (3)  
733,888,450,921    752,472,293,450  
666,555,444,333    100,000,000,000  
301,399,692,450    192,691,472,485

## Page 1 – 15:

- >, <  
<, >  
<, >  
>, >  
<, >  
>, <

## Page 1 – 16:

- 983,829,986  
579,372,273  
2,465,820,752  
877,713,266  
16,533,582,233  
300,182,407  
735,605,420,773  
12,345,678,900  
123,456,789  
864,198,321  
2,405,600  
12,001  
44,002

## Page 1 – 17:

- 567,901,286,160  
567,901,286,200  
567,901,286,000  
567,901,290,000  
567,901,300,000  
567,901,000,000  
567,900,000,000  
567,900,000,000  
568,000,000,000  
570,000,000,000  
600,000,000,000

## Page 1 – 18:

- 756,109,670,100  
756,109,670,100  
756,109,670,000  
756,109,670,000  
756,109,700,000  
756,110,000,000  
756,110,000,000  
756,100,000,000  
757,000,000,000  
760,000,000,000  
800,000,000,000

- 372,905,471,540  
372,905,471,500  
372,905,472,000  
372,905,470,000  
372,905,500,000  
372,905,000,000  
372,905,000,000  
372,910,000,000  
372,900,000,000  
373,000,000,000  
370,000,000,000  
400,000,000,000

## Page 2 – 3:

- (4)  $3^4, 7^4, 6^4$   
 $4^4, 5^4, 8^4$   
 $5^5, 1^5, 0^5$   
 $6^3, 2^3, 7^3$   
 $9^3, 5^3, 8^3$

## Page 2 – 3:

- (5)  
1, 2, 3, 4, 5  
6, 7, 8, 9, 10  
1, 4, 9, 16, 25  
36, 49, 64, 81, 100  
1, 8, 27, 64, 125  
216, 343, 512, 729, 1,000  
1, 16, 81, 256, 625  
1,296, 2,401, 6,561, 10,000  
1,32, 243, 1024, 3,125  
7,776, 16,807, 32,768, 59,049, 100,000  
1, 64, 729, 4,096, 15,625  
46,656, 117,649, 262,144, 531,441, 1,000,000  
1, 128, 2,187, 16,384, 78,125  
279,936, 823,543, 2,097,152, 1,000,000

## Page 2 – 5:

- (1) 150, 26  
300, 216  
0, 1  
3,476, 216  
3,916, 250  
63, 1

# Explore the Secrets of Math Level 5 Book1 Answers

## Page 2 – 6:

(1) 243, 496  
 13, 148  
 2,244, 3,238  
 9.25, 2,693  
 2,260, 2,803  
 1,361, 86076  
 468.75, 0.25

(1) 2, 6  
 2, 3  
 2, 3  
 2, 3  
 2, 3  
 2, 3  
 2, 3  
 2, 5  
 0, 4

## Page 2 – 7:

1, 2, 3, 6  
 1, 2, 4, 8  
 1, 3  
 1  
 1  
 1, 2, 3, 6  
 1, 13  
 1, 5  
 1, 2, 5, 10

## Page 2 – 8:

6, 8, 3, 1, 1, 6, 13, 5

## Page 2 – 9:

1, 2 2  
 1, 2, 4 4  
 1, 3 3  
 1, 2 2  
 1 1  
 1 1  
 1 1  
 1, 2, 3, 4, 6, 12 12  
 1 1  
 1, 2 2  
 1, 7 7  
 1, 5, 15 15  
 1, 13 13  
 1, 5 5  
 1, 2, 4, 8 8  
 1, 7 7  
 1, 3, 9 9  
 1 1  
 1, 2, 3, 6 6

## Page 2 – 9 (Count.):

1, 2, 3, 6 6  
 1, 3, 9 9  
 1, 3 3  
 1, 5, 25 25  
 1, 3, 4, 6, 8, 12, 24 24  
 1, 2, 3, 6, 9, 18 18  
 1, 3, 5, 15 15  
 1, 2, 4 4  
 1, 2 2

## Page 2 – 11:

7, 50  
 2, 120  
 3, 3  
 5, 2,014  
 2, 1,022

## Page 2 – 13:

4, 2  
 2, 4  
 2, 2

## Page 2 – 14:

D, C  
 D, D  
 A, D  
 D, D

## Page 2 – 16:

(1) 2, 4, 5, 10, 20 20  
 (1) 3, 9 9  
 (1) No.

## Page 2 – 17:

0, 3, 6, 9, 12, 15  
 0, 5, 10, 15, 20, 25, 30, 35, 40  
 0, 9, 18, 27, 36, 48, 60, 84, 96, 108  
 0, 13, 26, 39, 52, 65, 91, 104, 117, 130, 143  
 0, 24, 48, 72, 96, 120, 144, 168, 192

## Page 2 – 18: (1)

0, 4, 8, 12, 16, 20, 0, 6, 12, 18, 24, 30 0, 12  
 0, 3, 6, 9, 12, 15, 0, 5, 10, 15, 20, 25 0, 15  
 0, 6, 12, 18, 24, 30 0, 8, 16, 24, 32, 40 0, 24  
 0, 4, 8, 12, 16, 20 0, 5, 10, 15, 20, 25 0, 20  
 0, 12, 24, 36, 48, 60, 0, 14, 28, 42, 56, 70, 0  
 0, 23, 46, 69, 92, 115, 0, 15, 30, 60, 75, 90 0  
 0, 7, 14, 21, 28, 35, 0, 5, 10, 15, 20, 25 0

## Page 2 – 19: (2)

0, 15  
 0, 12, 24  
 0  
 0, 36  
 0, 45  
 0, 24, 48  
 0, 3, 9, 18, 27  
 0, 77

## Page 2 – 19: (3)

0  
 0, 2  
 0  
 0, 24, 48, 72, 96  
 0, 14, 28, 42, 56  
 0, 16, 24, 32, 64  
 0, 45, 90  
 0, 9, 45, 90  
 0, 6, 12, 18, 24, 36, 72  
 0

## Page 2 – 20:

4, 8, 12, 16, 20, 24, 28 12, 24, 12  
 3, 9, 12, 15, 18, 21, 24 12, 24  
 6, 12, 18, 24, 30, 36, 42, 24 24  
 8, 16, 24, 32, 40, 48, 56 24  
 2, 4, 6, 8, 10, 12, 14 12 12  
 6, 12, 18, 24, 30, 36 12  
 4, 8, 12, 16, 20, 24, 28 8, 24 8  
 8, 16, 24, 32, 40, 48, 56 8, 24  
 2, 4, 6, 8, 10, 12, 14 4, 8, 12 4  
 4, 8, 12, 16, 20, 24 4, 8, 12

## Page 2- 21:

B C  
 C C  
 C D  
 D C

## Page 2 – 23:

(1) 30, 45, 60 60 4  
 40, 60 60 3  
 60 60 2  
 (2) 60, 90, 120 120 4  
 80, 120 120 3  
 120 120 2

## Page 2 – 24:

0, 1, 279,000, 2, 0, 162,000,  
 94,672, 94,672, 666,666,  
 888,888, 777,777, 777,777,  
 10,000,000, 10,000,000,

## Page 2 – 25: (1)

F, F  
 F, T  
 T, T  
 T, F  
 F, F  
 F, T  
 F, F  
 F, T  
 F, F  
 F, F

# Explore the Secrets of Math Level 5 Book1 Answers

## Page 2 – 26:

100, 10,000  
 10,000, 1,000,000  
 7,744, 2,500  
 10,000, 81  
 36, 36  
 10,404, 8,100  
 121, 40,000  
 1, 400  
 121, 1,600  
 400, 64

(3) 2, 2, 2, 2, 2, 2

## Page 3 – 2:

(1) Yes, Yes, No, Yes, Yes, No, Yes,  
 Yes, Yes, Yes, Yes  
 (1) Yes, Yes, No, Yes, No, Yes, Yes,  
 Yes, Yes, No, Yes  
 (1) 80, 20, yes, yes  
 (1) 20, 30, yes, yes

## Page 3 – 3:

(1) No, Yes, No, No, Yes, No, No, Yes,  
 Yes, Yes, Yes  
 (1) Yes, Yes, No, No, Yes, Yes, No,  
 Yes, Yes, No, Yes  
 (1) 4, 6, yes, yes  
 (1) 6, 9, yes, yes

## Page 3 – 4:

(1) Yes, Yes, Yes, No, Yes, Yes, No,  
 Yes, Yes, No, Yes  
 (1) Yes, Yes, No, No, Yes, No, No, No,  
 yes, No, Yes  
 (1) 12, 24, yes, yes  
 (1) 328, 640, yes, yes

## Page 3 – 5:

(1) Yes, Yes, No, No, No, No, Yes, Yes,  
 Yes, Yes, Yes  
 (1) No, Yes, Yes, Yes, No, Yes, Yes,  
 Yes, Yes, No, No  
 (1) 12, 18, yes, yes  
**(1)** 18, 27, yes, yes

## Page 3 – 6:

(1) Yes, Yes, No, No, Yes, Yes  
 Yes, Yes, Yes, Yes, yes, Yes  
 Yes, Yes, Yes, No, Yes, No  
 (1) 14, 21, yes, yes

## Page 3 – 7:

(1) Yes, Yes, Yes, Yes, Yes, Yes  
 Yes, Yes, Yes, Yes, Yes, Yes  
 (1) 22, 33, yes, yes  
 (1) 66, 77, yes, yes

## Page 3 – 8:

(1) Yes, Yes, Yes, Yes, Yes, Yes  
 Yes, Yes, Yes, Yes, Yes, Yes

## Page 3 – 9:

(1) Yes, Yes, Yes, Yes, Yes, Yes  
 Yes, Yes, Yes, Yes, Yes, Yes  
 (1) 39, 52, yes, yes  
 (1) 65, 91, yes, yes

## Page 3 – 11:

(1) Yes, Yes, No  
 Yes, Yes, Yes  
 (1) Yes, No, No, Yes, Yes  
 (1) No, Yes, No, No  
 (1) Yes, No, Yes, No  
 Yes, Yes, Yes, No

## Page 3 – 12:

(1) Yes, Yes, Yes,  
 Yes, Yes, Yes  
 (1) Yes, Yes, No, Yes,  
 Yes, Yes, Yes, Yes  
 (1) No, Yes, Yes, Yes  
 Yes, Yes, Yes, Yes  
 (1) Yes, No, Yes, No

## Page 3 – 13:

(1) Yes, No, No, Yes  
 No, No, Yes, No  
 (1) Yes, No, Yes  
 Yes, Yes, Yes  
 (1) 3 (12) 8 (13) 11 (14) 10

## Page 3 – 14:

(1) Yes (2) Yes (3) Yes (4) Yes (5)  
 Yes (6) Yes

## Page 3 – 15:

(1) Yes (2) Yes (3) Yes (4) Yes (5)  
 Yes

## Page 3 – 16:

Yes, Yes, Yes, Yes, Yes, Yes, Yes,  
 Yes, Yes, Yes, Yes, Yes

## Page 3 – 18:

(1)  

724 1,725 No	719 1,720 No
723 2,725 No	718 2,720 No
722 3,725 No	717 3,720 No
721 4,725 Yes	716 4,720 No
722 5,725 No	715 5,720 No
719 6,725 No	714 6,720 Yes
718 7,725 No	713 7,720 No
717 8,725 No	712 8,720 No
716 9,725 No	711 9,720 No
725 725 No	720 720 No

## Page 3 – 18: (Count.)

(2) 1020 yes  
 1222 no  
 1424 no  
 1626 no  
 1828 no

## Page 3 – 19:

(3) X = 4, Y = 0 or  
 X = 5, Y = 8  
 x32y could be 4,302 or 5,328

## Page 3 – 20:

(4) Since  $42 = 6 \times 7 = 2 \times 3 \times 7$ ,  $x47y$  is  
 divisible by 42.  
 $x = 1, y = 0$  or  
 $x = 7, y = 6$  or  
 $x = 2, y = 8$   
 (5) Since  $12 = 3 \times 4 = 3 \times 2 \times 2$ ,  $x76y$  is  
 divisible by 12.  
 When  $y = 0, x = 2, 5, \text{ or } 8$   
 When  $y = 4, x = 1, 4, \text{ or } 7$   
 When  $y = 8, x = 0, 3, 6, \text{ or } 9$

## Page 3 – 21:

1, 2, 4	1, 11
1, 2	1, 2, 3, 4, 6, 12
1, 3	1, 13
1, 2, 4	1, 2, 7, 14
1, 5	1, 3, 5, 15
1, 2, 3, 6	1, 2, 4, 8, 16
1, 7	1, 17
1, 2, 4, 8	1, 2, 3, 6, 9, 18
1, 9	1, 19
1, 2, 5, 10	1, 2, 4, 5, 10, 20

## Page 3 – 22:

1, 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31

## Page 3 – 23:

37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79,  
 83, 89, 97

## Page 3 – 25:

$4 = 2^2$        $6 = 2 \times 3$        $9 = 3^2$   
 $12 = 3 \times 2^2$        $16 = 2^4$        $24 = 2^3 \times 3$   
 $124 = 2^2 \times 31$        $246 = 2 \times 3 \times 41$

## Page 3 – 26:

(1) 6, 7, 8  
 (1) 4, 5, 6  
 (1) 7, 8, 9  
 (1) 7 and 13

## Page 3 – 27:

(1) 13 and 17  
 (1) 17 and 23  
 (1) 29 and 31  
 (1) C, C, P  
 P, C, P  
 P, P, P  
 (1) 120

# Explore the Secrets of Math Level 5 Book1 Answers

## Page 3 – 27: (Count.)

(10) 4 rectangles  
1 x 36, 2 x 18, 3 x 12, 4 x 9

(11) 6 rectangles  
1 x 72, 2 x 36, 3 x 24, 4 x 18,  
6 x 12, 8 x 9

## Page 4 – 2:

$n + 9$ ,  $n - 7$ ,  $5 + m$ ,  $m - 12$ ,  $8 + a$ ,  $30 \times b$ ,  $n / 4$ ,  $5 + (c + d)$ ,  $78 - c$ ,  $(m + n) + 500$ ,  $(m - n) - 12$

## Page 4 – 3:

$(a + b) + 8$ ,  $30(c - d)$ ,  $(9 + n) + n$ ,  
 $(n + 3) - 7$ ,  $m + (5 + m)$ ,  $m - (12 + m)$ ,  
 $(a + 8) \times a$ ,  $3(m + 10)$ ,  $8n / 2$ ,  
 $(5 + c) + (c + d)$ ,  $(c - 20) - 8$ ,  
 $(500 + n) + (m + n)$ ,  $(m - n) - (12 - n)$ ,  
 $8a(a + b)$ ,  $3c(c - d)$

## Page 4 – 4:

7 + 8	7 - 3	7 = 46
15	4	53

78 + 34	78 - 14	78 + 67
112	64	145

77	28	1,226
118	35	1,410

## Page 4 – 5:

1,621	518	1,618
1,353	44	1,078
1,441	623	1,452
1,446	213	1,068
1,479	104	1,868
1,345	446	1,325
1,545	348	1,706
1,499	516	1,625
1,338	564	996

216	2,180	7,224
2,215	1,169	5,767
2,218	4,675	12,867
1,163	1,257	12,747
1,418	146	9,451
1,119	2,576	11,236
1,193	2,307	9,555
3,144	4,966	10,457
6,214	6,945	13,725

## Page 4 – 6:

$n - 15 = 25$	open
$6 + 50 = 56$	true
$8 - 6 = 10$	false
$15 + n = 15$	open
$60 + n = 156$	open
$n - 34 = 57$	open

## Page 4 – 7:

$N - 79 = 80$   
 $M + 54 = 123$   
 $129 - m = 96$   
 $8a = 128$   
 $30b = 2,970$

## Page 4 – 7: (Count.)

$n / 4 = 400$   
 $5 + c = 1,005$   
 $c - 78 = 543$   
 $(m - n) + 500 = 949$   
 $(m - n) - 12 = 42$   
 $8a = 72$   
 $30(c - d) = 270$   
 $(9 + n) + n = 25$   
 $(n + 3) - 7 = 8$   
 $m + (5 + m) = 25$   
 $750 - m = 123$   
 $6a = 72$   
 $3(m + 10) = 33$   
 $n / 2 = 8$   
 $(c - 20) - 8 = 48$   
 $3a = 0$

## Page 4 – 8: (2)

$x - 5 = 5$   
 $x + 26 = 39$   
 $x - 4 = 13$   
 $x + 23 = 35$   
 $x - 2 = 15$   
 $x + 54 = 65$   
 $x - 1 = 10$

## Page 4 – 9: (1)

$X = 20 - 10$ ,  $y = 34 - 13$ ,  $x = 3 + 15 + 7 - 21$   
 $X = 20 + 10$ ,  $y = 58 - 27$ ,  $y + y = 45 + 12 - 28$   
 $X = 20 - 14$ ,  $y = 61 + 37$ ,  $z + z = 25 - 38 + 21 - 31$   
 $X = 2 + 43$ ,  $y = 21 + 63$ ,  $x + y + z = 9 + 2 + 5 + 7$

## Page 4 – 10: (2)

$X = 10$ ,  $y = 21$ ,  $x = 10$   
 $X = 20$ ,  $y = 31$ ,  $y = 30$   
 $X = 34$ ,  $y = 24$ ,  $z = 6$   
 $X = 45$ ,  $y = 16$ ,  $x = 45$   
 $X = 80$ ,  $y = 52$ ,  $y = 22$   
 $X = 113$ ,  $y = 20$ ,  $z = 80$   
 $X = 172$ ,  $y = 39$ ,  $x = 17$   
 $X = 103$ ,  $y = 42$ ,  $y = 110$   
 $X = 93$ ,  $y = 63$ ,  $z = 92$

## Page 4 – 11:

(3) 2,950, 2,417  
(4) 2,608, 2,374  
(5) 2,788, 3,541  
(6) 2,666, 3,423

## Page 4 – 12:

721 x 85	721 x 37	721 x 46
61,285	26,677	33,166
2,688 / 48	2,688 / 16	2,688 / 4
56	168	672
780	25	310,233
3,445	24	470,129

## Page 4 – 13:

32	312,375	16
21	143,157	24
35	349,860	35
52	203,490	47
78	164,577	43
26	286,671	25
27	251,685	89
93	311,661	74
39	328,797	69

889,661	11	2,654,208
2,662,774	13	1,535,232
2,665,435	98	6,988,032
1,818,350	92	6,895,872
2,044,535	23	4,364,544
1,779,322	32	5,735,424
1,844,960	75	4,444,416
3,575,497	57	5,137,152
6,298,587	66	7,646,976

## Page 4 – 14: (1)

$Y = 20 / 10$ ,  $x = 82 \times 5$ ,  $z = 10 / 3 \times 2 \times 3 / 2$   
 $Y = 20 / 10$ ,  $x = 58 \times 2$ ,  $z = 10 \times 5 / 10 \times 2 / 4$   
 $Y = 42 / 14$ ,  $x = 24 \times 3$ ,  $z = 42 / 7 \times 3 \times 7 / 21$   
 $Y = 86 / 43$ ,  $x = 57 \times 6$ ,  $z = 120 \times 5 / 9 \times 3 / 5$

## Page 4 – 15: (2)

$X = 100$ ,  $y = 36$ ,  $y = 2$   
 $X = 100$ ,  $y = 33$ ,  $z = 1,035$   
 $X = 448$ ,  $y = 46$ ,  $y = 45$   
 $X = 2,322$ ,  $y = 567$ ,  $x = 2,236$   
 $X = 1,404$ ,  $y = 31$ ,  $y = 486$   
 $X = 2,322$ ,  $y = 45$ ,  $z = 10$   
 $X = 7,275$ ,  $y = 9$ ,  $x = 1,485$   
 $X = 2,496$ ,  $y = 56$ ,  $y = 45$

## Page 4 – 16:

(3) 17.5 (4) 12.5 (5) 3 (6) 3

## Page 4 – 17: (1)

569 C  
1,138 C  
1,983 C  
2,291 A  
1,119 A  
2,215 A  
1,655 A  
1,170 A  
797 A

## Page 4 – 18: (1)

X C  
Y C  
X C  
Z + X A  
Y + Z A  
X + Y A

## Page 4 – 18: (2)

33	65
286	398
2,067	4,032

# Explore the Secrets of Math Level 5 Book1 Answers

## Page 4 – 18: (2)

33	65
286	398
2,067	4,032
251	1,163
80	636
257	435

## Page 4 – 19:

0,	0
236,	0
746,	1453
935,	935
724,	724
483,	1,376
767.	0
159,	159

## Page 4 – 20: (1)

4	128	C
4	520	C
6	22,200	C
9x76	40,356	A
23x24	23,736	A
3x67	60,501	A

## Page 4 – 21:

N	C
M	C
N	C
N x Z	A
M x Z	A
N x M	A

## (2)

2	3
3	119
6	1,017
7	492
6	1,418
76	4

## Page 4 – 22: (1)

33, 42, 81, 4, 56, 81, 20, 279, 72, 52, 56, 366

## Page 4 – 23:

3n + 3m,	7n – 7m,	9n + 9m,
4n – 4m,	AB + AC,	QR + QS,
UV – UW,	EF + EG,	4n + mm,
6n + mn,	9A – AB,	2A – AB,
4Q + RQ,	EF – EG,	4n – mn,
6n – mn,	2Y – XY,	3A – AC,
4Q – RQ		

## Page 4 – 24:

(2)	B
D	C
D	C
D	D
(3)	
5,251 x 5	684 x 3 = 342 x 6
6,000 x 30	424 x 6 = 848 x 3
700 x 70	842 x 2 = 421 x 4

## Page 4 – 25:

(1) \$74.00

## Page 4 – 26:

(2) \$40.00 (3) \$87.00 (4) \$79.00

## Page 4 – 27:

(5) \$69 (6) \$110 (7) \$113

## Page 4 – 28: (1) 15

## Page 4 – 29:

(2) 8 (3) \$9.43 (4) \$12.72

## Page 4 – 31:

(1) Pine: 704; Sunshine: 880  
(1) Pine: 892; Sunshine: 988

## Page 5 – 3:

$\frac{1}{2}$ ,  $\frac{2}{4}$ ,  $\frac{4}{8}$ ,  $\frac{8}{16}$  Yes  
 $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{8}$ ,  $\frac{1}{16}$  No  
 $\frac{1}{3}$ ,  $\frac{1}{3}$ ,  $\frac{3}{9}$ ,  $\frac{3}{9}$ ,  $\frac{3}{9}$ ,  $\frac{3}{9}$  Yes

## Page 5 – 4:

3/6	8/12
21/35	35/56
27/63	7/42
70/91	336/368
161/437	1,066/1,271
1,702/2,438	3,060/3,555
7	9
7	6

## Page 5 – 5:

equivalent	equivalent
equivalent	equivalent
equivalent	equivalent

## Page 5 – 6:

equivalent	equivalent
equivalent	not equivalent
not equivalent	equivalent
not equivalent	not equivalent
equivalent	not equivalent
equivalent	equivalent

## Page 5 – 7:

(1) yes (2) yes (3) no (4) yes  
(5) no (6)  $\frac{4}{8}$ ,  $\frac{3}{6}$ ,  $\frac{7}{14}$ ,  $\frac{9}{18}$ .  
 $\frac{8}{16}$ ,  $\frac{21}{42}$ ,  $\frac{32}{64}$  (7)  $\frac{4}{6}$ ,  $\frac{6}{9}$ ,  
 $\frac{8}{12}$ ,  $\frac{22}{33}$

## Page 5 – 8:

(8) 3, 4, 5, 6, 7, 8, 9  
3, 4, 5, 6, 7, 8, 9  
3, 4, 5, 6, 7, 8, 9  
(9) True, False, True, False, False,  
True, True

## Page 5 – 10:

12, 24, 36  
15, 30  
20  
14

## Page 5 – 11:

12	63
15	21
30	20
35	72
56	8

## Page 5 – 12: (2)

30, 21, 20, 56, 18, 36, 9, 20, 10,  
24, 10, 84, 42, 26, 378, 168, 62,  
820, 2,728

## Page 5 – 12: (2)

(3) C (4) C (5) B (6) D (7) F  
(8) D (9) E (10) D

## Page 5 – 15:

(2)  $\frac{25}{60}$ ,  $\frac{24}{60}$  (3)  $\frac{15}{72}$ ,  $\frac{16}{72}$   
(4)  $\frac{15}{42}$ ,  $\frac{35}{42}$  (5)  $\frac{6}{48}$ ,  $\frac{40}{48}$   
(6)  $\frac{5}{20}$ ,  $\frac{2}{20}$  (7)  $\frac{49}{112}$ ,  $\frac{80}{112}$   
(8)  $\frac{10}{24}$ ,  $\frac{21}{24}$  (9)  $\frac{9}{24}$ ,  $\frac{20}{24}$   
(10)  $\frac{15}{36}$ ,  $\frac{14}{36}$  (11)  $\frac{8}{24}$ ,  $\frac{3}{24}$   
(12)  $\frac{39}{143}$ ,  $\frac{77}{143}$

# Explore the Secrets of Math Level 5 Book1 Answers

## Page 5 – 16:

3/12    ¼    25/60    20/48  
 10/12    20/28    24/60    15/48  
 15/72    5/21    15/42    10/26  
 16/72    6/21    35/42    13/26  
 6/48    2/18    5/20    3/15  
 40/48    6/18    2/20    1/15  
 49/112    21/48    10/24    10/24  
 80/112    28/48    21/24    17/24  
 9/24    4/18    15/36    15/33  
 20/24    15/18    14/36    7/33  
 12/56    3/32    39/143    18/42  
 7/56    28/32    77/143    18/42

## Page 5 – 17:

<, >, >, <, <  
 =, <, >, <, <  
 <, >, >, >, =  
 >, >, >, <, >  
 >, >, <, <, >

## Page 5 – 19:

1 3/8, 2/3, 7/10, 7/9, 7/8, 1 1/3,  
 3/10, 1 4/9, 13/22, 1 49/60,  
 29/33

## Page 5 – 20:

1 17/42, 2 18/35, ½, 8/9, 1 ½, 1  
 ¼, 8/9, 1 1/6, ½, 1 1/3, 7/8,  
 1 1/12

## Page 5 – 21:

1 3/5, 7/12, 7/9, ¾, ½, 1 3/16,  
 1 ¼, 1 1/3, 3/10, 4 1/14, 1 3/14,  
 1 1/12, 1 1/24,

## Page 5 – 22:

1 1/36,    1 1/5,    1 17/28  
 1 8/45,    1 5/7,    29/30  
 1 5/18,    4/5,    1 13/56  
 1 11/40,    1 31/63,    31/42  
 41/72,    1 3/5,    23/28  
 14/45,    12/35,    11/30  
 1 4/9,    24/35,    1 16/35  
 1 4/63,    2 1/10,    1 3/5  
 1 1/8,    20/21,    1 5/12  
 32/45,    26/35,    23/30  
 1 55/72,    1 7/15,    1 11/21  
 1 1/36,    1 9/10,    1 7/10

## Page 5 – 24: (1)

1/8, 1/6, 1/10, 1/9, 1/8, 1/3,  
 1/10, 1/9, 1/22, 1/60, 13/33

## Page 5 – 25:

11/42, 4/35, ½, 1/9, 1/6, ¼,  
 4/9, 17/78, 0, 0, 17/90, 1/12

## Page 5 – 26:

0, ¼, 1/9, ¼, ½, 9/16, 5/12,  
 1/3, 1/10, 1/14, 3/14, 7/12,  
 17/24

## Page 5 – 27:

18 8/9, 2 ½, 5 ¾, 4 5/6, 3 19/72,  
 0, 16 4/5, 1, 12, 4, 3 5/6, 1  
 2/5, 3 1/8

## Page 5 – 29:

(1) 5 1/6	5 5/6
5 ¾	7 5/6

## Page 5 – 30: (2)

5 ¾,	10 13/30
7 ¾	16 11/12
30 5/6	12 15/56
100 8/15	10 4/9
80 9/14	91 5/8
101 3/10	59 29/45
83 25/28	72 37/56
3 5/56	105 7/9
10 8/63	15 19/30
2 74/91	42 23/24
85 487/656	30 14/15
12 111/119	20 13/36
48 5/11	39 5/6

## Page 5 – 32:

(1) _____	1 1/12
4 1/6	1 1/6
1 1/6	1 1/4

## Page 5 – 33: (2)

3 ¼	2
4 1/6	1
6 2/15	2
2 5/14	2
3/10	4 5/24
2 17/28	37/42
6 27/56	30 1/56
31 11/42	3 1/42
13 4/91	3 7/20
101/1,763	1 705/4,418
2 67/238	12 19/32
2 5/33	5 1/9
4 7/44	3/20

## Page 5 – 35:

(2) 3 3/3	3/2/2	3/4/4	5 4/4
5 3/3	1 8/8	3 6/6	5 4/4

(3) 3 5/5	3 3/3	5 7/7	4 4/4
7 9/9	6 8/8	1 4/4	6 6/6
6 5/5	8 8/8	3 2/2	1 4/4
4 2/2	5 3/3	2 2/2	6 3/3

## Page 5 – 37:

4 ½, 1 2/3, ¾, 2 ¾, 3 2/3,  
 5 4/5, 6/7, 5 ½, 1 6/7

## Page 5 – 38:

5 5/8, 30 3/7, 12 8/13, 19/43,  
 1 29/34, 1 28/33, 3 37/44, 6 17/28,  
 5 72/77, 58 73/83, 34 34/51,  
 96 33/74, 28 1/23,

## Page 5 – 40: (1)

5 ½, 2 1/3, 1 ¼, 3 ¼, 4 1/3,  
 2 1/5, 6 1/7, 6 ½

## Page 5 – 41: (2)

2 ½, 3 1/9, 1/5, 2/5, 2 1/8,  
 1 2/3, 2 ¼, 3 1/7

## Page 5 – 42: (3)

2 1/7,	1
6 3/8,	1 1/2
31 4/7	1/2
13 5/13	1 7/13
1 14/43	8 ½
2 5/34	9 1/3
2 5/33	1 1/6
4 7/44	2 1/6
7 11/28	2/11
6 5/77	1/11
16 10/83	1 1/11
16 7/51	1 7/23
63 41/74	11 2/3

## Page 5 – 44:

1 1/3, 1 1/3, 1 ¼, 3 ¼, 4 1/6,  
 6 2/15, 2 5/14, 1/20, 2 3/28

## Page 5 – 45:

6 13/56, 31 11/42, 13 23/72  
 1 231/882, 2 63/245, 2 19/33,  
 4 19/28, 7 13/28, 2 3/8, 2 4/63,  
 4 14/35, 7 2/21, 1 13/28

# Explore the Secrets of Math Level 5 Book1 Answers

**Page 5 –47:**

2/3, 2/3, 3/4, 2 3/4, 3 2/3, 5 13/15,  
1 33/35, 3/9, 2 25/28

**Page 5 – 48:**

5 7/9, 30 31/42, 12 49/72, 31/42,  
1 26/35, 1 14/33, 3 20/27, 6 15/28  
2 1/14, 1 59/63, 3 4/5, 6 3/4,  
1 53/56

**Page 5 – 51:**

(2) 7 2/5 (3) 3 8/9 (4) 1/6  
(5) 5 2/7 (6) 9 5/9 (7) 3 6/7  
(8) 9 3/8 (9) 21 7/9 (10) 4 4/5  
(11) 2 2/5 (12) 3 5/9

**Page 5 – 52:**

(13) 15 (14) 18 (15) 21  
(16) 2 (17) 4 (18) 1  
(19) 7 1/6 (20) 4 5/6 (21) 1/6  
(22) 1 1/6 (23) 5 13/15 (24) 7 13/20  
(25) 66 139/306 (26) 8 199/1554  
(27) 121 143/444 (28) 14 59/966  
(29) 71 57/48 (30) 2 170/2,173  
(31) 99 2,177/2,573 (32) 22 829/3,901

**Page 5 – 53:** (1) T, T, T, T

**Page 5 – 54:**

T, F, T, F, T, T, T, T, T, F

**Page 5 – 55:**

$$\frac{(Ad + c)f + (Bf + e)c}{df}$$

$$\frac{(Ud + c)f + d(Vf + e)}{df}$$

$$\frac{(Ad + c)f + (Bf + e)d}{df}$$

$$\frac{(Ad + c)f + (Bf + c)d}{df}$$

$$\frac{(Ad + c) + (Bf + e)}{d}$$

$$\frac{(Ad + c)f + (Af + e)d}{df}$$

$$\frac{(Ad + c) + (Bf + c)}{d}$$

$$\frac{(Ad + c)f + (Af + e)d}{df}$$

$$\frac{(Ad + c)f + (Af + ed)}{df}$$

$$\frac{(Ad + c) + (Bf + c)}{df}$$

**Page 6 – 2:**

1 1/3 2 5/6  
2 2/5 3 3/4  
5/6 1 1/4

**Page 6 – 3:**

1/3 2/5 2/7  
1/6 3/7 10/27

**Page 6 – 4: (1)**

1/9	3/7	1/6
2/9	2/5	2/7
8/15	1/2	5/9
1/15	1/12	1/27
16/27	1	9/16
3/8	15/32	9/20
7/16	3/7	27/64
2/9	1 3/7	1 1/7
1	1 1/35	25/42
8/27	1 1/35	15/32
1/40	1	15/56
35	24/63	24/35
9/32	5/18	5/6

**Page 6 – 5:**

1/27	1/35	21/32
169/252	105/171	350/377
2 19/29	13/210	17/20
(2)	1/5	
7/10	5/16	
1/30	1/16	
1/15	3/16	
3/10	1/4	
1/2	7/16	

**Page 6 –7: (1)**

1/6	3/7
2/9	2/7
2/9	2/5
8/15	1/2
1/15	1/12

**Page 6-8:**

(2) 1/15 (3) 3/20 (4) 4/49  
(5) less (6) greater (7) 1/2  
(8) 3/8 (9) 1 1/2 (10) 3  
(11) 2 1/4 (12) 5

**Page 6 – 9:**

9 1/3	392 2/3
7 2/3	1,237 1/2
11 1/7	5,759 4/7
12	3,684 3/4
14 1/4	3,134 1/4
16 7/8	1,881 3/4
25 3/8	4,924 1/2

**Page 6 – 10:**

10 4/5	2,099 22/25
99 1/15	892 44/63
11 17/28	494 39/48
15 17/24	680 4/5
15 5/6	512 5/36

**Page 6 – 11:**

19 9/14	1,207 5/9
9 5/27	1,254 6/35
16 1/8	395 15/56
15 5/6	2,498 2/9
41 9/14	378 2/9
7 23/27	529 2/7
6 3/4	413 25/56
8 7/30	2,892 2/9
8 9/14	537 5/9
17/27	14 6/35
5 31/40	3 27/56
4 2/15	16 2/9
6 8/15	14 5/9

**Page 6 – 12:** T, T, T, T

**Page 6 –13:** F, F, F, F, T, F, F, F, F, F, F

**Page 6 –14:** 27 7/8, 3 7/9, 12 3/8, 12 3/4, 20 1/4, 36 1/4, 22 1/20

**Page 6 – 15:**

(2)  
Correct  
Correct  
$$\frac{(Ad+c) \times (Af+e)}{df} = \frac{A^2 df + Ade + A^2 fc + c}{df}$$
  
$$\frac{(Ad+c) \times (Bf+e)}{df} = \frac{AdBf + Ade + cBf + ce}{df}$$
  
$$\frac{(Ad+c) \times (Bf+e)}{df} = \frac{AdBf + Ade + cBf + ce}{df}$$

(3) 
$$\frac{(Ad + c) \times (Bf + e)}{df}$$

$$\frac{Af + e}{df}$$

$$\frac{(Ad + c) \times (Af + e)}{df}$$

$$\frac{A^2 df + Ade + A^2 fc + ce}{df}$$

$$\frac{(Ad + c) \times (Bf + e)}{df}$$

# Explore the Secrets of Math Level 5 Book1 Answers

Page 6 – 16: (4)

$$\frac{(Ad + c) \times (Bf + e)}{df}$$

$$\frac{(Ud + c) \times (Vf + e)}{df}$$

$$\frac{(Ad + c) \times (Bf + e)}{df}$$

$$\frac{(Ad + c) \times (Bf + c)}{df}$$

$$\frac{(Ad + c) \times (Bd + e)}{d^2}$$

$$\frac{(Ad + c) \times (Af + c)}{df}$$

$$\frac{(Ad + c) \times (Ad + e)}{d^2}$$

$$\frac{(Ad + c) \times (Af + e)}{d^2}$$

$$\frac{(Af + c) \times (Af + e)}{f^2}$$

$$\frac{(Ad + c) \times (Bf + e)}{d^2}$$

Page 6 – 17:

- (1) 1, 1, 1  
 1, 1, 1  
 1, 1, 1  
 1, 1, 1
- (1) 9/4, 2, 3/4, 5/7, 8/35, 6/37  
 3, 6, 7/4, 9/7, 8/27, 6/49

Page 6 – 18: (3)

9/4, 6/7, 5/3  
 5/4, 8/7, 7/3  
 6/31, 6/55, 1/104  
 7/34, 6/61, 1/268  
 36/43, 36/5  
 21/100, 35/8  
 21/61, 35/29  
 9/11, 1  
 4 1/2, 1/4  
 17/24, 5 25/42  
 11/24, 5/3

Page 6 – 20:

- (1) 4, 8, 12, 16  
 20, 24, 28, 32
- (2) 15, 18, 21, 21  
 45, 48, 49, 40  
 18, 10, 24, 4  
 54, 25, 27, 42

Page 6 – 21:

1/15, 1/18, 1/21, 1/24  
 1/45, 1/48, 1/49, 1/40

Page 6 – 22:

1/18,	4/10,	5/24,	1/4
5/54,	3/25,	7/27,	1/42
3/48,	1/106,	1/688,	1/462
<u>13/3,285, 15/2,592, 23/2,256, 11/5,226</u>			
13 6,861/9,776,		3,415/5,661	
3 1/12,		9 23/31	
15 6/7,		4 20/39	
3 4/7,		20 23/40	
9 313/536		8 13,694/41,391	

Page 6 – 24:

4 1/2, 3/10, 1 1/9, 5/6  
1 1/5, 1 11/24, 49/64, 49/64  
21/20, 1, 9/16, 5/36  
10/21, 13/28, 3/14, 2/3  
105/224, 273/527, 210/247, 1  
42/47, 3, 90/119, 32 13/18  
8/15, 1,936/5,929, 735/1,653, 5/7  
13/33, 2,451/1,400, 567/612, 2/3  
125/529, 3/4, 1 1/6, 1/2  
49/54, 738/1,023, 207/184, 62/87  
1/2, 1,372/1,587, 86/129, 1 15/42

1,848/1,763, 1,540/1,539,  
4,753/4,752, 1 1/945

7,310/7,308, 378/377, 495/496,  
6,859/5,859, 1 1,000/5,859

Page 6 – 25:

7, 24, 12, 8, 4, 3, 24, 12, 8, 6,3

Page 6 – 26:

1 11/24, 78/145, 2 82/175  
 141/152, 74/117, 133/240  
 55/148, 2 11/25, 33/59  
 1 11/39, 48/55, 432/175  
 51/134, 38/117, 1 103/240

Page 6 – 28:

1/8, 1/27, 14 1/25, 55/216,  
 53/90, 2, 23/48, 1 5/8, 127/900,  
 857/4,410, 1 1/3, 53/56, 323/378

Page 6 – 29:

H = 6, H= 9/4, X = 6/7, Y = 72/14  
 , Z = 36, V = 343/25, U = 10,  
 W = 2

Page 6 – 31:

(1) 15 (2) \$9.43 (3) \$12.71

Page 6 – 33:

20