(Note: The number in parentheses by each practice problem indicates the trick number used to solve it.)

	Day 1		Day 2		Day 3		Day 4
1.	90 • 90 (1)	1.	300 • 90 (1)	1.	8,400 ÷ 120 (1)	1.	90 • 60 (1)
2.	360 ÷ 9 (1)	2.	810 ÷ 9 (1)	2.	700 • 90 (1)	2.	8,800 ÷ 80 (1)
3.	800 • 60 (1)	3.	70 • 800 (1)	3.	320 ÷ 8 (1)	3.	70 • 70 (1)
4.	1,440 ÷ 12 (1)	4.	13,200 ÷ 12 (1)	4.	1,100 • 50 (1)	4.	4,200 ÷ 60 (1)
5.	50 • 120 (1)	5.	80 • 80 (1)	5.	4,800 ÷ 40 (1)	5.	110 • 120 (1)
6.	1.1 • 1.1 (2)	6.	0.4 • 9 (2)	6.	70 • 0.6 (2)	6.	0.9 • 5,000 (2)
7.	44 ÷ 1.1 (2)	7.	8.4 ÷ 12 (2)	7.	60 ÷ 1.2 (2)	7.	0.4 • 700 (2)
8.	0.8 • 12 (2)	8.	700 • 0.7 (2)	8.	80 • 0.7 (2)	8.	7.2 ÷ 12 (2)
9.	6.3 ÷ 7 (2)	9.	6.4 ÷ 8 (2)	9.	9.6 ÷ 12 (2)	9.	7,000 • 0.3 (2)
10.	In one day, Carolina Ernie Dodge loaded 16 tons of coal from the mine. If a ton is 2,000 lbs., how many lbs. of coal did Caro- lina Ernie load? (1)	10.	Ed had \$36,000 extra to spread among 90 of his employees. If he spread the extra money equally, how much did each employee receive? (1)	10.	Each of Reverence Grace's 9 children ate 0.8 ounces of peanut butter at sup- per one day. How many total ounces did they eat? (2)	10.	An egg farmer plants 70 rows, using 7,700 seeds. If he plants an equal number of seeds in each row, how many seeds will each row get? (1)

Math Tips, Tricks & Mental Calculations – Week 1 Key

Day 1		Day 2		Day 3		Day 4	
1.	8,100	1.	27,000	1.	70	1.	5,400
2.	40	2.	90	2.	63,000	2.	110
3.	48,000	3.	56,00	3.	40	3.	4,900
4.	120	4.	1,100	4.	55,000	4.	70
5.	6,000	5.	6,400	5.	120	5.	13,200
6.	1.21	6.	3.6	6.	42	6.	4,500
7.	40	7.	0.7	7.	50	7.	280
8.	9.6	8.	490	8.	56	8.	0.6
9.	0.9	9.	0.8	9.	0.8	9.	2,100
10.	32,000 lbs.	10.	\$400	10.	7.2 oz.	10.	110 seeds

	Day 1		Day 2		Day 3		Day 4
1.	60 • 40 (1)	1.	5,000 • 80 (1)	1.	72,000 ÷ 60 (1)	1.	12,000 • 30 (1)
2.	3,500 ÷ 70 (1)	2.	630,000 ÷ 70 (1)	2.	7,000 • 4,000 (1)	2.	99,000 ÷ 900 (1)
3.	300 • 50 (1)	3.	400 • 8,000 (1)	3.	3,200 ÷ 40 (1)	3.	5,600 ÷ 70 (1)
4.	0.8 • 9 (2)	4.	2,000 • 0.3 (2)	4.	20,000 • 0.003 (3)	4.	400,000 • 0.09 (2)
5.	990 ÷ 1.1 (2)	5.	720 ÷ 0.8 (2)	5.	8,800 ÷ 0.8 (2)	5.	5,600 ÷ 0.8 (2)
6.	800 • 0.03 (3)	6.	1,000 • 0.04 (3)	6.	10,000 • 0.04 (3)	6.	90,000 • 0.07 (3)
7.	4,000 • 0.02 (3)	7.	60,000 • 0.06 (3)	7.	200,000 • 0.02 (3)	7.	1,200 • 0.9 (3)
8.	Convert 0.85 to a % and fraction. (4)	8.	Convert 6/25 to a % and a decimal. (4)	8.	Convert 7/25 to a % and a decimal. (4)	8.	Convert 0.275 to a % and fraction. (4).
9.	Convert 35% to a decimal and a fraction. (4)	9.	Convert 65% to a decimal and a fraction. (4)	9.	Convert 95% to a decimal and a fraction. (4)	9.	Convert 86% to a decimal and a fraction. (4)
10.	Jane filled 600 bot- tles. Each bottle held .09 oz.; how many oz. were needed? (3)	10.	Ann knew 45% of the quiz answers. Convert this to a fraction and a decimal. (4)	10.	Sue had 8,400 oz.; each bottle held 0.7 oz. How many bottles can she fill? (2)	10.	Al sold 96% of his pet goats. Convert this to a fraction and a decimal. (4)

Math Tips, Tricks & Mental Calculations - Week 2 Key

Day 1		Day 2		Day 3		Day 4	
1.	2,400	1.	400,000	1.	1,200	1.	360,000
2.	50	2.	9,000	2.	28,000,000	2.	110
3.	15,000	3.	3,200,000	3.	80	3.	80
4.	7.2	4.	600	4.	60	4.	36,000
5.	900	5.	900	5.	11,000	5.	7,000
6.	24	6.	40	6.	400	6.	6,300
7.	80	7.	3,600	7.	4,000	7.	1,080
8.	85%, 17/20	8.	24%, .24	8.	28%, .28	8.	27.5%, 11/40
9.	.35, 7/20	9.	.65, 13/20	9.	.95, 19/20	9.	.86, 43/50
10.	54 oz.	10.	9/20, .45	10.	12,000	10.	24/25, .96

Reminder: Pop Quiz 1 is in class next week!

	Day 1		Day 2		Day 3		Day 4
1.	900 • 3,000 (1)	1.	400,000 • 200 (1)	1.	28 • 7 (5)	1.	42 • 6 (5)
2.	360,000 ÷ 600 (1)	2.	630,000 ÷ 70 (1)	2.	280 • 70 (5)	2.	4.2 • 600 (5)
3.	7,000 • 0.6 (2)	3.	50,000 • 0.09 (2)	3.	36,000 ÷ 90 (1)	3.	8,000 • 90,000 (1)
4.	840 ÷ 1.2 (2)	4.	720 ÷ 0.8 (2)	4.	200,000 • 0.001 (3)	4.	800,000 • 0.004 (3)
5.	8,000 • 0.02 (3)	5.	60,000 • 0.02 (3)	5.	88,000 ÷ 1.1 (2)	5.	84,000 ÷ 1.2 (2)
6.	10,000 • 0.05 (3)	6.	1,000,000 • 0.01 (3)	6.	10,000 • 0.006 (3)	6.	100,000 • 0.005 (3)
7.	Convert 12.5% to a decimal and a fraction. (4)	7.	Convert 82.5% to a decimal and a fraction. (4)	7.	Convert 44% to a fraction and a decimal. (4)	7.	Convert 0.52 to a percent and a fraction. (4)
8.	84 • 3 (5)	8.	37 • 6 (5)	8.	74 • 3 (5)	8.	48 • 4 (5)
9.	8.4 • 3 (6)	9.	3.7 • 6 (6)	9.	0.74 • 3 (6)	9.	480 • 4 (6)
10.	Jack laid 5,000 hairs end to end. Each hair was 0.004 feet long. How long was the line of hairs? (3)	10.	Each box held 3.7 lbs. of lemons. How many lbs. of lemons are there in 600 box-es? (6)	10.	Diana saw 0.375 of the birds on her new- ly washed car. Con- vert this to a percent and to a fraction. (4)	10.	Chuck laid 16% of the foundation of the house. Convert this to a decimal and to a fraction. (4)

Math Tips, Tricks & Mental Calculations - Week 3 Key

Day 1		Da	Day 2		Day 3		Day 4	
1.	2,700,000	1.	80,000,000	1.	196	1.	252	
2.	600	2.	9,000	2.	19,600	2.	2,520	
3.	4,200	3.	4,500	3.	400	3.	720,000,000	
4.	700	4.	900	4.	200	4.	3,200	
5.	160	5.	1,200	5.	80,000	5.	70,000	
6.	500	6.	10,000	6.	60	6.	500	
7.	.125, 1/8	7.	.825, 33/40	7.	11/25, .44	7.	52%, 13/25	
8.	252	8.	222	8.	222	8.	192	
9.	25.2	9.	22.2	9.	2.22	9.	1,920	
10.	20 ft.	10.	2,220	10.	37.5%, 3/8	10.	.16, 4/25	

Reminder: Pop Quiz 2 is next week!

	Day 1		Day 2		Day 3	Day 4
1.	200 • 20,000 (1)	1.	400,000 • 200 (1)	1.	38 • 7 (5)	Quiz 1! Take Quiz 1! Remember,
2.	7,000 • 0.6 (2)	2.	810 ÷ 0.9 (2)	2.	380 • 70 (5)	do not use a calculator! Perform all of the calcula- tions <i>mentally</i> .
3.	60,000 • 0.08 (3)	3.	80,000 • 0.0008 (3)	3.	500,000 • 0.0001 (3)	
4.	Convert 72.5% to a decimal and a fraction. (4)	4.	Convert 0.76 to a percent and a fraction. (4)	4.	Convert 87.5% to a decimal and a fraction. (4)	
5.	38 • 5 (5)	5.	26 • 7 (5)	5.	82 • 6 (5)	
6.	3.8 • 5 (6)	6.	260 • 7 (6)	6.	8.2 • 6 (6)	
7.	3,800 • 0.5 (6)	7.	2.6 • 0.7 (6)	7.	820 • 6 (6)	
8.	60% of 400 (7)	8.	90% of 300 (7)	8.	30% of 5,000 (7)	
9.	70% of 2,000 (7)	9.	40% of 1,100 (7)	9.	20% of 11,000 (7)	
10.	Larry sold 80% of the 2,000 used hankies. How many used hankies did he sell? (7)	10.	Julie saved 42.5% on essential oils. Convert this to a decimal and to a fraction. (4)	10.	Bob saw 20% of the 12,000 people in the neighborhood. How many did he see? (7)	

Math Tips, Tricks & Mental Calculations – Week 4 Key

Day 1		Da	Day 2		y 3	Day 4
1.	4,000,000	1.	80,000,000	1.	266	Check your Quiz 1
2.	4,200	2.	900	2.	26,600	against the key!
3.	4,800	3.	64	3.	50	Reminder: Pop Quiz 3 is next week!
4.	.725, 29/40	4.	76%, 19/25	4.	.875, 7/8	
5.	190	5.	182	5.	492	
6.	19	6.	1,820	6.	49.2	
7.	1,900	7.	1.82	7.	4,920	
8.	240	8.	270	8.	1,500	
9.	1,400	9.	440	9.	2,200	
10.	1,600 pairs	10.	.425, 17/40	10.	2,400 people	

	Day 1		Day 2		Day 3		Day 4
1.	400 • 300,000 (1)	1.	360,000 ÷ 600 (1)	1.	43 • 5 (5)	1.	52 • 8 (5)
2.	9,000 • 0.6 (2)	2.	10.800 ÷ 9 (2)	2.	430 • 50 (5)	2.	5.2 • 800 (5)
3.	110,000 • 0.03 (3)	3.	70,000 • 0.07 (3)	3.	200,000 • 0.0006 (3)	3.	300,000 • 0.004 (3)
4.	Convert 3/20 to a decimal and a %. (4)	4.	Convert .72 to a % and a fraction. (4)	4.	Convert 39/40 to a decimal and a %. (4)	4.	Convert 82% to a decimal and a fraction. (4)
5.	36 • 4 (5)	5.	41 • 7 (5)	5.	62 • 8 (5)	5.	84 • 3 (5)
6.	3,600 • 4 (6)	6.	410 • 7 (6)	6.	6.2 • 8 (6)	6.	840 • 3 (6)
7.	3.6 • 0.4 (6)	7.	4.1 • 0.7 (6)	7.	620 • 8 (6)	7.	8.4 • 0.3 (6)
8.	40% of 6,000 (7)	8.	80% of 12,000 (7)	8.	60% of 50,000 (7)	8.	30% of 120,000 (7)
9.	72% of 3,000 (8)	9.	41% of 7,000 (8)	9.	62% of 8,000 (8)	9.	84% of 3,000 (8)
10.	Ty tagged 72% of the 300 birds before they pecked him to death. How many birds did he tag? (8)	10.	Bill made \$23 every day for a week. How much money did he make that week? (5)	10.	Sara sold 62% of her 800 eggs. How many eggs did she sell? (8)	10.	lan used 8.4 gallons of sugar per day for 30 days. How many gallons did he use over the 30 days? (6)

Math Tips, Tricks & Mental Calculations - Week 5 Key

Day 1		Day 2		Day 3		Day 4	
1.	120,000,000	1.	600	1.	215	1.	416
2.	5,400	2.	1.2	2.	21,500	2.	4,160
3.	3,300	3.	4,900	3.	120	3.	1,200
4.	.15, 15%	4.	72%, 18/25	4.	.975, 97.5%	4.	.82, 41/50
5.	144	5.	287	5.	496	5.	252
6.	14,400	6.	2,870	6.	49.6	6.	2,520
7.	1.44	7.	2.87	7.	4,960	7.	2.52
8.	2,400	8.	9,600	8.	30,000	8.	36,000
9.	2,160	9.	2,870	9.	4,960	9.	2,520
10.	216	10.	\$161	10.	496	10.	252

Reminder: Pop Quiz 4 is next week!

	Day 1		Day 2		Day 3	Day 4
1.	7,000 • 0.02 (3)	1.	960,000 ÷ 1,200 (1)	1.	30,000 • 0.05 (3)	Quiz 2! Take Quiz 2! Remember,
2.	Convert 11/12 to a decimal (to three	2.	6,000 • 0.4 (2)	2.	Convert .35 to a % and a fraction. (4)	do not use a calculator! Perform all of the calculations <i>mentally</i> .
	digits) and a %. (4)	3.	38 • 5 (5)	3.	86 • 3 (5)	
3.	64 • 5 (5)	4.	380 • 50 (6)	4.	8.6 • 3 (6)	
4.	6.4 • 5 (6)	5.	.38 • 5 (6)	5.	860 • 30 (6)	
5.	6.4 • 500 (6)	6.	60% of 2,000 (7)	6.	20% of 500 (7)	
6.	90% of 400 (7)	7.	43% of 3,000 (8)	7.	34% of 2,000 (8)	
7.	82% of 4,000 (8)	8.	40% of what number			
8.	20% of what number is 25? (9)		is 60? (9)	8.	22% of what number is 110? (9)	
9.	What number is 35% of 80? (9)	9.	What number is 72% of 75? (9)	9.	What number is 26% of 50? (9)	
40		10.	72 is what percent of 90? (9)	10.	Jack shelled 243 of	
10.	40 is what percent of 250? (9)				the 300 peanuts be- fore developing ar- thritis. What percent did he shell? (9)	

Math Tips, Tricks & Mental Calculations - Week 6 Key

Day 1		Day 2		Da	y 3	Day 4
1.	140	1.	800	1.	1,500	Check your Quiz 2 against the key!
2.	.916 (or .917), 91.7%	2.	2,400	2.	35%, 7/20	Reminder:
3.	320	3.	190	3.	258	Pop Quiz 5 is next week!
4.	32	4.	19,000	4.	25.8	
5.	3,200	5.	1.9	5.	25,800	
6.	360	6.	1,200	6.	100	
7.	3,280	7.	1,290	7.	680	
8.	125	8.	150	8.	500	
9.	28	9.	54	9.	13	
10.	16%	10.	80%	10.	81%	

	Day 1		Day 2		Day 3		Day 4
1.	600 • 0.04 (3)	1.	12,000,000 ÷ 600 (1)	1.	30,000 • 0.003 (3)	1.	60,000 ÷ 100 (1)
2.	Convert 3/7 to a decimal (to three	2.	3,000 • 0.8 (2)	2.	Convert 7/9 to a decimal (to three digita) and a 9/ (4)	2.	810,000 ÷ 0.9 (2)
	digits) and a %. (4)	3.	88 • 4 (5)		digits) and a %. (4)	3.	74 • 5 (5)
3.	73 • 8 (5)	4.	.88 • 0.4 (6)	3.	92 • 4 (5)	4.	740 • 50 (6)
4.	7.3 • 0.8 (6)	5.	40% of 12,000 (7)	4.	9.2 • 400 (6)	5.	.74 • 5 (6)
5.	90% of 60,000 (7)	6.	27% of 2,000 (8)	5.	70% of 11,000 (7)	6.	40% of 11,000 (7)
6.	24% of 3,000 (8)	7.	32% of what number	6.	77% of 3,000 (8)		
7.	85% of what number	1.	is 24? (9)	7.	44% of what number	7.	63% of 2,000 (8)
	is 34? (9)	8.	What number is 70% of 420? (9)		is 66? (9)	8.	75% of what number is 48? (9)
8.	What number is 65% of 120? (9)	0		8.	What number is 52% of 700? (9)	9.	What number is 88%
9.	66 is what percent of	9.	96 is what percent of 160? (9)	9.	42 is what percent of		of 125? (9)
	220? (9)	10.	How much is a 15%		105? (9)	10.	Piety Grace made shoes from 80 of the
10.	How much is a 15% tip on a \$26 bill? (10)		tip on a \$46 bill? (10)	10.	How much is a 15% tip on a \$80 bill? (10)		250 pumpkins. What percent of the pumpkins did she turn into shoes? (9)

Math Tips, Tricks & Mental Calculations - Week 7 Key

Da	y 1	Da	y 2	Da	y 3	Day	y 4
1.	24	1.	20,000	1.	90	1.	600
2.	.428 (or .429), 42.9%	2.	2400	2.	.777 (or .778), 77.8%	2.	900,000
3.	584	3.	352	3.	368	3.	370
4.	5.84	4.	.352	4.	3,680	4.	37,000
5.	54,000	5.	4,800	5.	7,700	5.	3.7
6.	720	6.	540	6.	2,310	6.	4,400
7.	40	7.	75	7.	150	7.	1,260
8.	78	8.	294	8.	364	8.	64
9.	30%	9.	60%	9.	40%	9.	110
10.	\$3.90	10.	\$6.90	10.	\$12	10.	32%

Reminder: Pop Quiz 6 is next week!

	Day 1	Day 2			Day 3	Day 4		
1.	2,000 • 0.03 (3)	1.	110,000 ÷ 100 (1)	1.	80,000 • 0.001 (3)	Quiz 3! Take Quiz 3! Remember,		
2.	Convert 7/11 to a decimal (to three	2.	540,000 ÷ 900 (1)	2.	Convert 96% to a decimal and a	do not use a calculator! Perform all of the calculations mentally.		
	digits) and a %. (4)	3.	28 • 4 (5)		fraction. (4)			
3.	46 • 8 (5)	4.	.28 • 0.4 (6)	3.	52 • 9 (5)			
4.	4.6 • 0.8 (6)	5.	30% of 30,000 (7)	4.	5.2 • 900 (6)			
5.	60% of 700,000 (7)	6.	37% of 4,000 (8)	5.	40% of 9,000 (7)			
6.	36% of 8,000 (8)	7.	36% of what number	6.	59% of 4,000 (8)			
7.	45% of what number is 36? (9)	7.	is 27? (9)	7.	12% of what number is 72? (9)			
		8.	56 is what percent of 280? (9)					
8.	84 is what percent of 105? (9)			8.	70 is what percent of 175? (9)			
9.	How much is a 15% tip on a \$32 bill? (10)	9.	How much is a 15% tip on a \$300 bill? (10)	9.	How much is a 15% tip on a \$20 bill? (10)			
10.	What is the total cost of an \$800 fancy coffee shop latté if sales tax is 7%? (11)	10.	What is the total cost of a \$600 guitar if the sales tax is 5%? (11)	10.	What is the total cost of a \$400 set of tires if a 3% "tire tax" is added? (11)			

Math Tips, Tricks & Mental Calculations - Week 8 Key

Day 1	Day 2	Day 3	Day 4
1. 60	1. 1,100	1. 80	Check your Quiz 3 against the key!
2636, 63.6%	2. 600	296, 24/25	Reminder:
3. 368	3. 112	3. 468	Pop Quiz 7 is next week!
4. 3.68	4112	4. 4,680	
5. 420,000	5. 9,000	5. 3,600	
6. 2,880	6. 1,480	6. 2,360	
7. 80	7. 75	7. 600	
8. 80%	8. 20%	8. 40%	
9. \$4.80	9. \$45	9. \$3	
10. \$856	10. \$630	10. \$412	

000 • 0.01 (3)	Day 2			Day 3	Day 4		
	1.	900,000 ÷ 100 (1)	1.	50,000 • 0.002 (3)	1.	7,000,000 ÷ 700 (1)	
nvert 5/6 to a simal (to three ts) and a %. (4)	2.	480,000 ÷ 0.6 (2)	2.	Convert .675 to a % and a fraction. (4)	2.	630 ÷ 0.9 (2)	
• 5 (5)	3.	33 • 4 (5)	3.	72 • 8 (5)	3.	56 • 5 (5)	
· ,	4.	33 • 0.4 (6)	4.	7.2 • 800 (6)	4.	.56 • 5 (6)	
• 0.5 (6)	5.	67% of 3,000 (8)	5.	90% of 90,000 (7)	5.	10% of 200,000 (7)	
% of 300,000 (7)	6.	26% of what number is 13? (9)	6.	39% of 5,000 (8)	6.	65% of 4,000 (8)	
% of 2,000 (8) % of what number	7.	80 is what percent of 250? (9)	7.	16% of what number is 48? (9)	7.	60% of what number is 75? (9)	
w much is a 15% on a \$62 bill? (10)	8.	How much is a 15% tip on a \$400 bill? (10)	8.	How much is a 15% tip on a \$64 bill? (10)	8.	40 is what percent of 250? (9)	
e the total cost of	9.	What is the total cost of a \$600 phone if	9.	Give the total cost of a \$26 pen, including a 6% sales tax. (11)	9.	How much is a 15% tip on a \$60 bill? (10)	
d the price of a couch, marked vn 60%. (12)	10.	How much is a \$70 coat if it's been discounted 30%? (12)	10.	Hezekiah purchased a new flamethrower for 40% off the original price of \$2,300.	10.	Give the total cost of a fancy \$30 wedding ring if an 8% sales tax is added. (11)	
e44::	the total cost of pair of socks if s tax is 8%. (11)	8. much is a 15% n a \$62 bill? (10) 4. the total cost of 0 pair of socks if s tax is 8%. (11) 5. the price of a 10. couch, marked	8. How much is a 15% tip on a \$400 bill? (10) the total cost of 0 pair of socks if s tax is 8%. (11) the price of a 0 couch, marked 8. How much is a 15% tip on a \$400 bill? (10) 9. What is the total cost of a \$600 phone if sales tax is 7%? (11)	8. How much is a 15% tip on a \$400 bill? (10) 4 the total cost of 0 pair of socks if s tax is 8%. (11) 4 the price of a 0 couch, marked 8. How much is a 15% tip on a \$400 bill? (10) 9. What is the total cost of a \$600 phone if sales tax is 7%? (11) 10. How much is a \$70 coat if it's been dis-	8. How much is a 15% tip on a \$400 bill? (10) 9. What is the total cost of of a \$600 phone if sales tax is 8%. (11) 10. How much is a 15% tip on a \$64 bill? (10) 9. Give the total cost of a \$26 pen, including a 6% sales tax. (11) 11. Hezekiah purchased a new flamethrower for 40% off the origi-	8. How much is a 15% tip on a \$400 bill? (10) 1. the total cost of 0 pair of socks if s tax is 8%. (11) 1. the price of a 0 couch, marked in 60%. (12) 2. The total cost of 0 pair of socks if s tax is 8%. (11) 3. How much is a 15% tip on a \$64 bill? (10) 4. The total cost of a \$600 phone if sales tax is 7%? (11) 4. The price of a 10. How much is a \$70 coat if it's been discounted 30%? (12) 4. The total cost of a \$26 pen, including a 6% sales tax. (11) 4. The price of a 10. How much is a \$70 coat if it's been discounted 30%? (12) 4. The total cost of a \$26 pen, including a 6% sales tax. (11) 4. The price of a 10. How much is a \$70 coat if it's been discounted 30%? (12) 5. The total cost of a \$26 pen, including a 6% sales tax. (11) 5. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 6. The total cost of a \$26 pen, including a 6% sales tax. (11) 7. The total cost of a \$26 pen, including a 6% sales tax. (11) 8. The total cost of a \$26 pen, including a 6% sales tax. (11) 8. The total cost of a \$26 pen, including a 6% sales tax. (11) 8. The total cost of a \$26 pen, including a 6% sales tax. (11) 8. The total cost of a \$26 pen, including a 6% sales tax. (11) 8. The total cost of a \$26 pen, including a 6% sales tax. (11) 8. The total cost of a \$26 pen, including a 6% sales tax. (11) 8. The total co	

Math Tips, Tricks & Mental Calculations - Week 9 Key

Da	y 1	Da	y 2	Da	y 3	Da	y 4
1.	500	1.	9,000	1.	100	1.	10,000
2.	.833, 83.3%	2.	800,000	2.	67.5%, 27/40	2.	700
3.	130	3.	132	3.	576	3.	280
4.	1.3	4.	13.2	4.	5,760	4.	2.8
5.	150,000	5.	2,010	5.	81,000	5.	20,000
6.	920	6.	50	6.	1,950	6.	2,600
7.	200	7.	32%	7.	300	7.	125
8.	\$9.30	8.	\$60	8.	\$9.60	8.	16%
9.	\$43.20	9.	\$642	9.	\$27.56	9.	\$9
11.	\$200	11.	\$49	11.	\$1,380	10.	\$32.40

Reminder: Pop Quiz 8 is next week!

	Day 1		Day 2		Day 3	Day 4		
1.	70,000 • 0.03 (3)	1.	8,000,000 ÷ 200 (2)	1.	30,000 • 0.009 (3)	Quiz 4! Take Quiz 4! Remember,		
2.	Convert 1/6 to a decimal (to three digits) and a %. (4)	2.	440,000 ÷ 1.1 (2)	2.	Convert .135 to a % and a fraction. (4)	do not use a calculator! Perform all of the calculations <i>mentally</i> .		
3.	66 • 3 (5)	3.	48 • 5 (5)	3.	29 • 5 (5)			
4.	6.6 • 3 (6)	4.	48 • 50 (6)	4.	2.9 • 500 (6)			
5.	40% of 800,000 (7)	5.	87% of 2,000 (8)	5.	20% of 200,000 (7)			
6.	58% of 4,000 (8)	6.	14% of what number is 280? (9)	6.	99% of 7,000 (8)			
7.	62% of what number is 31? (9)	7.	65 is what percent of 500? (9)	7.	21% of what number is 84? (9)			
8.	How much is a 15% tip on a \$22 bill? (10)	8.	How much is a 15% tip on a \$70 bill? (10)	8.	How much is a 15% tip on a \$44 bill? (10)			
9.	Give the total cost of a \$35 shirt if sales tax is 7%. (11)	9.	What is the total cost of a \$1200 bike if the sales tax is 5%? (11)	9.	Give the total cost of a \$45 book, including a 8% sales tax. (11)			
10.	Calculate the price of an \$80 cell phone on sale for 10% off. (12)	10.	A haircut is \$18, but you have a 20% off coupon. How much is the sale price? (12)	10.	How much would a pair of \$84 glasses be if the pair is discounted 30%? (12)			

Math Tips, Tricks & Mental Calculations – Week 10 Key

Da	y 1	Da	y 2	Da	y 3	Day 4
1.	2,100	1.	40,000	1.	270	Check your Quiz 4 against the key!
2.	.166 (or .167), 16.7%	2.	400,000	2.	13.5%, 27/200	,
3.	198	3.	240	3.	145	Reminder: Pop Quiz 9 is next week!
4.	19.8	4.	2,400	4.	1,450	
5.	320,000	5.	1,740	5.	40,000	
6.	2,320	6.	2,000	6.	6,930	
7.	50	7.	13%	7.	400	
8.	\$3.30	8.	\$10.50	8.	\$6.60	
9.	\$37.45	9.	\$1,260	9.	\$48.60	
10.	\$72	10.	\$14.40	10.	\$58.80	

	Day 1		Day 2	Day 3			Day 4		
1.	8,000,000 • 0.02 (3)	1.	300,000 • 70 (1)	1.	40,000 • 0.0008 (3)	1.	300,000 • 100 (1)		
2.	Convert 22.5% to a decimal and a frac-	2.	800 • 0.12 (2)	2.	Convert 57/80 to a decimal (to 4 places)	2.	3.3 ÷ 30 (2)		
	tion. (4)	3.	96 • 5 (5)		and a %. (4)	3.	84 • 4 (5)		
3.	4.2 • 7 (6)	4.	96 • 50 (6)	3.	59 • 3 (5)	4.	84 • 0.4 (6)		
4.	80% of 40,000 (7)	5.	71% of 6,000 (8)	4.	5.9 • 300 (6)	5.	31% of 5,000 (8)		
5.	63% of 5,000 (8)	J.		5.	95% of 3,000 (8)	J.			
6.	70% of what number	6.	29 is what percent of 580? (9)	6.	18% of what number	6.	30% of what number is 600? (9)		
	is 84? (9)	7.	How much is a 15%		is 90? (9)	7.	45 is what percent of		
7.	26 is what percent of 130? (9)		tip on a \$50 bill? (10)	7.	How much is a 15% tip on a \$28 bill? (10)		150? (9)		
o	Cive the total cost of	8.	What is the total cost of a \$140 table if	o	Cive the total cost of	8.	How much is a 15% tip on a \$30 bill? (10)		
8.	Give the total cost of a \$9 book if sales tax is 6%. (11)		sales tax is 4%? (11)	8.	Give the total cost of a \$29 watch, with a 5% sales tax. (11)	9.	What is the total cost		
9.	Find the sale price of	9.	How much is a shirt, originally \$62, discounted 30%? (12)	9.	A \$44 pair of shoes		of a \$1200 bed, if sales tax is 4%? (11)		
J.	a \$110 printer discounted 20%. (12)			J.	is discounted 10%. How much are they	10.	Find the sale price of		
10.	Find 2/5 of 60. (13)	10.	Find 3/7 of 84. (13)	10.	now? (12) Find 5/12 of 72. (13)		a \$3,200 computer marked down 40%.		

Math Tips, Tricks & Mental Calculations - Week 11 Key

Day 1		Da	Day 2		y 3	Day 4	
1.	160,000	1.	21,000,000	1.	32	1.	30,000,000
2.	.225, 9/40	2.	96	2.	.7125, 71.25%	2.	0.11
3.	29.4	3.	480	3.	177	3.	336
4.	32,000	4.	4,800	4.	1,770	4.	33.6
5.	3,150	5.	4,260	5.	2,850	5.	1,550
6.	120	6.	5%	6.	500	6.	2,000
7.	20%	7.	\$7.50	7.	\$4.20	7.	30%
8.	\$9.54	8.	\$145.60	8.	\$30.45	8.	\$4.50
9.	\$88	9.	\$43.40	9.	\$39.60	9.	\$1,248
10.	24	10.	36	10.	30	10.	\$1,920

Reminder:

Pop Quiz 10 is next week!

	Day 1	Day 2			Day 3	Day 4
1.	48 • 5; 48 ÷ 5 (14)	1.	700,000 • 70 (1)	1.	26 • 5; 26 ÷ 5 (14)	Quiz 5! Take Quiz 5! Remember,
2.	Find 7/10 of 80. (13)	2.	1,200 • 0.9 (2)	2.	Find 3/8 of 96. (13)	do not use a calculator! Perform all of the calculations <i>mentally</i> .
3.	Find the new price of a \$400 door marked down 28%. (12)	3.	Convert .875 to a % and a fraction (4)	3.	Find the new price of a \$60 pair of shoes discounted 26%. (12)	
4.	4. What is the total cost of a \$320 bench if sales tax is 6%? (11)	4.	47% of 3,000 (8)	4.	What is the total cost of a \$3,000 car if the	
		5.	75 is what percent of 1,500? (9)		sales tax is 7%? (11)	
5.	How much is a 15% tip on a \$36 bill? (10)	6.	48 is 40 percent of what number? (9)	5.	How much is a 15% tip on a \$22 bill? (10)	
6.	23 is what percent of 460? (9)	7.	What is the total cost of a \$700 stereo if	6.	24 is what percent of 600? (9)	
7.	40% of what number is 104? (9)		sales tax is 5%? (11)	7.	30% of what number is 2,400? (9)	
8.	34% of 6,000 (8)	8.	Find the price of a \$4000 car if it's on sale at 18% off. (12)	8.	23% of 8,000 (8)	
9.	30% of 400 (7)	9.	Find 8/11 of 99. (13)	9.	60% of 300 (7)	
10.	8.6 • 200 (6)	10.	62 • 5; 62 ÷ 5 (14)	10.	5.4 • 300 (6)	

Math Tips, Tricks & Mental Calculations – Week 12 Key

Day 1		Da	Day 2		y 3	Day 4
1.	240; 9.6	1.	49,000,000	1.	130; 5.2	Check your Quiz 5
2.	56	2.	1,080	2.	36	against the key!
3.	\$288	3.	87.5%, 7/8	3.	\$44.40	Reminder: Pop Quiz 11 is next week!
4.	\$339.20	4.	1,410	4.	\$3,210	
5.	\$5.40	5.	5%	5.	\$3.30	
6.	5%	6.	120	6.	4%	
7.	260	7.	\$735	7.	8,000	
8.	2,040	8.	\$3280	8.	1,840	
9.	120	9.	72	9.	180	
10.	1,720	10.	310; 12.4	10.	1,620	

Day 1		Day 2		Day 3		Day 4		
1.	54 • 5; 54 ÷ 5 (14)	1.	1,200,000 • 120 (1)	1.	66 • 5; 66 ÷ 5 (14)	1.	2,000,000 • 80 (1)	
2.	Find 2/7 of 56. (13)	2.	1,100 • 0.4 (2)	2.	Find 7/8 of 64. (13)	2.	1,200 • 1.1 (2)	
3.	Find the price of a \$20 candy bar discounted 12%. (12)	3.	Convert .85 to a % and a fraction (4)	3.	How much is a \$640 computer discounted 30%? (12)	3.	Convert .425 to a % and a fraction (4)	
4.	What is the total cost of a \$500 TV if sales tax is 8%? (11)	4.	29% of 3,000 (8)	4.	4. What is the total cost of \$2,500 braces if sales tax is 5%? (11)	4.	76% of 5,000 (8)	
		5.	55 is what percent of 1,100? (9)			5.	75 is what percent of 120? (10)	
5.	How much is a 15% tip on a \$90 bill? (10)	6.	210 is 60 percent of what number? (9)	5.	How much is a 15% tip on a \$48 bill? (10)	6.	48 is 15 percent of what number? (10)	
6.	90 is what percent of 3,000? (9)	7.	What is the total cost of a \$34 jacket, with	6.	60 is what percent of 4,800? (9)	7.	What is the total cost of \$25 glasses if	
7.	45% of what number is 180? (9)		sales tax of 6%? (11)	7.	80% of what number is 2,800? (9)		sales tax is 7%? (11)	
8.	77% of 5,000 (8)	8.	You get 80% off a \$42 turkey. What is the sale price? (12)	8.	43% of 6,000 (8)	8.	A \$30 pair of jeans is marked down 45%. How much are the jeans? (12)	
9.	20% of 9,000 (7)	9.	Find 5/6 of 72. (13)	9.	20% of 70,000 (7)	9.	Find 5/7 of 63. (13)	
10.	9.4 • 300 (6)	10.	74 • 5; 74 ÷ 5	10.	8.5 • 400 (6)	10.	82 • 5; 82 ÷ 5 (14)	

Math Tips, Tricks & Mental Calculations - Week 13 Key

Day 1	Day 2		Day 3		Day 4	
1. 270; 10.8	1.	144,000,000	1.	330; 13.2	1.	160,000,000
2. 16	2.	440	2.	56	2.	1,320
3. \$17.60	3.	85%, 17/20	3.	\$448	3.	42.5%, 17/40
4. \$540	4.	870	4.	\$2,625	4.	3,800
5. \$13.50	5.	5%	5.	\$7.20	5.	62.5%
6. 3%	6.	350	6.	1.25%	6.	320
7. 400	7.	\$36.04	7.	3,500	7.	\$26.75
8. 3,850	8.	\$8.40	8.	2,580	8.	\$16.50
9. 1,800	9.	60	9.	14,000	9.	45
10. 2,820	10.	370; 14.8	10.	3,400	10.	410; 16.4

Reminder: Quiz 6 (Final) is next week!