

6271- 1 NLN Reprint corrections as of 9/2/10 (Editions 3-2 and 3-3)

Page	Currently	Change to	
Edition 3-2			
76	(1/1, 12/12, 160/160,...)	(1/1, 12/1, 160/1,...)	
80	2.305 is read "Two and three hundred five-thousandths."	2.305 is read "Two and three hundred five thousandths."	
84	1/3 0.3 2/3 0.6	Add line above 3 and 6 to show repetition	
92	for $6/10 y + 20 = 5/10$	for $6/10 y + 2 = 5/10 y$	
94	But what is the value $x$ ? To arrive at the answer, you have to guess at and try probable values. In this case, try 12. $2x + x = 36$ $2(12) + 12 = 36$ $3x = 36$ $24 + 12 = 36$ $36 = 36$ So $x = 12$ . This is your answer.	But what is the value $x$ ? To arrive at the answer, use your algebra skills to find the value of $x$ . $2x + x = 36$ $3x = 36$ Divide both sides by 3 $x = 12$ So $x = 12$ . This is your answer.	
97	$A = r^2$	$A = \pi r^2$	
98	$\pi = 3.14$	$\pi = 3.14$ (rounded off)	
98	Move: $SA = 2lw + 2wh + 2lh$	To: Surface area of a rectangular solid, under $h =$ height	
99	$l = \text{length}0$	$l = \text{length}$	
102	EX: To find the area of the following figure, introduce one perpendicular line and find the total area of the resulting two figures...	EX: One way to find the area of the following figure is to introduce one perpendicular line and find the total area of the resulting two figures...	
104	Question 3 $3.16 \times 6.09$	Question 3 Round your answer to the nearest hundredth. $3.16 \times 6.09$	
107	23. Labels measuring $2 \frac{1}{2} \times 1 \frac{1}{2}$ in are to be cut...	23. Labels measuring $2 \frac{1}{2} \times 1 \frac{1}{2}$ in. are to be cut...	
108	Question 27 b. $2 > 3/1$	Question 27 b. $2/3 \div 1$	
132	Question 4 $6 \frac{5}{12} = 5 \frac{17}{12}$ and $2 \frac{2}{3} = 2 \frac{8}{12}$	Question 4 $6 \frac{5}{12} = \frac{77}{12}$ and $2 \frac{2}{3} = \frac{32}{12}$	

	$6 \frac{5}{12} - 2 \frac{8}{12} = 3 \frac{9}{12} = 3 \frac{3}{4}$	$77/12 - 32/12 = 45/12 = 3 \frac{9}{12} = 3 \frac{3}{4}$	
136	Question 20 60  <u>12</u> 1.80	Question 20 60  <u>120</u> 1.80	
136	23. <b>The answer is b.</b> First, find the area of the label....  ... $97/5 = 19.4 \approx 19$ lables	23. <b>The answer is b.</b> One way to solve the problem is to find the area of the label....  ... $97/5 = 19.4 \approx 19$ labels	
137	Since the width of the labels and the width of the tape are the same, you can...	Finding the solution can be simplified since the width of the labels and the width of the tape are the same. Therefore, you can...	
138	29. <b>The answer is c.</b> Change 3 qt to...	29. <b>The answer is c.</b> Change $3\frac{3}{4}$ qt to...	
138	30. <b>The answer is a.</b>	30. <b>The answer is b.</b>	
140	Delete answer to 39.	Replace with: 39. <b>The answer is c.</b> The sides of the smaller rectangle are half the size of the sides of the larger rectangle, which is the same as saying the sides of the larger rectangle are twice the size of the smaller rectangle's sides. Since the area of the larger rectangle is known, the area of the smaller rectangle can be found using algebra; $2a \times 2b =$ area of the larger rectangle; $a \times b =$ area of the smaller rectangle. $2a \times 2b = 400 \text{ ft}^2$ $4ab = 400 \text{ ft}^2$ $ab = 100 \text{ ft}^2$	
144	Delete answer to 23.	Replace with: 23. <b>The answer is b.</b> Two adult tablets contain 10 gr	

		of aspirin; so the question is really how many children's tablets, each with 1.25 gr, will yield 10 gr? Solve this problem by dividing 10 gr/adult aspirin by 1¼ gr per child aspirin: $10/1\frac{1}{4} = 10/5/4 = 10/1 \times 4/5 = 40/5 = 8$ tablets You can also solve this by trial and error, using the answer choices.	
146	Question 31 $x = 125/400 = 125 \div 25/400 \div 25 = 5/10$ in	Question 31 $x = 125/400 = 125 \div 25/400 \div 25 = 5/16$ in	
159	1. <b>The answer is b.</b> to find the average of a set of numbers, add up the numbers...	1. <b>The answer is b.</b> to find the average of a set of numbers, add the numbers...	
160	Question 13. The other sets are disqualified because 0 and 1 (and 21) are neither prime nor composite (i.e., have more than two factors), and 39 has factors other than 1 and itself (namely, 3 and 13).	Question 13. The other sets are disqualified because 0 is not a prime number and 21 and 39 are complete numbers.	
246	Question 25. c. 300	Question 25 c. 370	
263	25. <b>The answer is c.</b> Locate the ethyl alcohol line and follow it from 50°C to 70°C. At the 50°C point, the pressure is 200 mm Hg. At the 70°C point, the vapor pressure is 500 mm Hg. The vapor pressure has risen 300 mm Hg.	25. <b>The answer is c.</b> Locate the ethyl alcohol line and follow it from 50°C to 70°C. At the 50°C point, the pressure is $\approx 210$ mm Hg. At the 70°C point, the vapor pressure is $\approx 580$ mm Hg. The vapor pressure has risen $\approx 370$ mm Hg.	
132	Therefore, multiplying the number of beats in 15 sec by 4 = beats per minute. 20 beats/15 sec interval times. 4 intervals = 80 beats.	Therefore, multiplying the number of beats in 15 sec by 4 = beats per minute. 20 beats/15 sec interval times 4 intervals = 80 beats.	
162	Cross-multiply to solve for x, convert 5 into an improper	Cross-multiply to solve for x, convert $5\frac{3}{4}$ into an	

	fraction...	improper fraction...	
182	<b>Amylase</b> breaks down starch into smaller carbohydrate molecules (polysaccharides and disaccharides).	<b>Amylase</b> breaks down starch into smaller carbohydrate molecules (monosaccharides and disaccharides).	
184	End product column: fatty acid and  Location column: small intestine glycerol	End product column: fatty acid and glycerol  Location column: small intestine	
192	Hormone(s) column: parahormone	Hormone(s) column: parathormone	
200	Chemical receptors in the tongue and nasal passage receive stimuli form the environment...	Chemical receptors in the tongue and nasal passage receive stimuli from the environment...	
202	For instance, a neutral sodium atom has 23 protons and 23 electrons. However, a sodium ion (Na <sup>+</sup> ), which forms by losing an electron, has 23 (positively charged) protons and 22 (negatively charged) electrons.	For instance, a neutral sodium atom has 11 protons and 11 electrons. However, a sodium ion (Na <sup>+</sup> ), which forms by losing an electron, has 11 (positively charged) protons and 10 (negatively charged) electrons.	
252	Question 60 refers to the following diagram showing a ray of light as it strikes a mirror at an angle of 300°.	Question 60 refers to the following diagram showing a ray of light as it strikes a mirror at an angle of 30°.	
312	<b>55. The answer is c.</b>	<b>55. The answer is a.</b>	
358	You can also solve this problem by saying 350 students = .20x.  ...350 students = 20x $x = 350/.20 = 1,750$ smokers $1,750 - 350 = 1,400$ smokers	You can also solve this problem by saying 350 students = -.20x.  ...350 students = 0.20x $x = 350/0.20 = 1,750$ smokers $1,750 - 350 = 1,400$ smokers	
397	<b>15. The answer is d.</b> A regular pentagon is a pentagon (a 5-sided polygon) with all the sides of the same length. If the	<b>15. The answer is a.</b> A regular pentagon is a pentagon (a 5-sided polygon) with all the sides	

	perimeter is 30 cm, then each side measures $30 \text{ cm} \div 5 \text{ sides} = 6 \text{ cm/side}$ .	of the same length. If the perimeter is 15 cm, then each side measures $15 \text{ cm} \div 5 \text{ sides} = 3 \text{ cm/side}$ .	