

Pre-Algebra AS 9 Answer Key

5.1

- 42. 60
- 44. $280a^4b^2$
- 46. $36b^3c^2$
- 48. $30x^3y^2$
- 50. <
- 52. >
- 54. >
- 56. =
- 60. B
- 62. A
- 64. 5×10^6
- 66. 8.9×10^6
- 68. 6
- 70. 5c
- 72. 13 nations

5.2

- 34. 2.3125
- 36. 3.8
- 38. $0.\underline{6}3$ (except the line goes above the numbers)
- 40. $6^4/5$
- 42. $10^{35}/333$
- 44.

$\frac{1}{8}$	$\frac{1}{4}$			$\frac{5}{8}$		
		0.375	0.5		0.75	0.875

- 46. $9^1/495$
- 48. $1^1/5$
- 56. $1/8, 1/5, 3/8, 3/5, 5/8$
- 58. 3.485×10^{10}
- 60. $11/6$
- 62. $61/8$

5.3

- 2. $4/z$
- 4. $9/11$
- 6. $1^1/2$
- 8. $5/x$
- 10. $7/20$
- 12. $\frac{30-2x}{5x}$
- 14. $1^5/8$
- 16. $6^5/24$
- 18. $3^5/8$
- 20. $-7/8$
- 40. D
- 42. B
- 44. yes
- 46. 0.6, $0.66, \frac{2}{3}$
- 48. x^3
- 50. Mean = \$34,600
Median = \$26,000
Mode = \$22,000
I would use the mean.

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5.4

- 30. $2x/7$
- 32. $10/21$
- 34. $1\frac{1}{2}$
- 36. -4
- 38. 9 oz
- 40. $1\frac{1}{3}$
- 42. $2/3$
- 44. $-2\frac{4}{7}$
- 46. 2
- 48. $1\frac{1}{4}$
- 50. 40
- 52. $1\frac{1}{24}$
- 54. $\frac{3}{4}$

5.5

- 32. B
- 34. D
- 36. A
- 38. length
- 40. volume
- 42. length
- 44. quarts
- 46. ounces
- 48. a. 3 handbreadths; 66 handbreadths; 22 spans
- b. Students were asked to measure the length of any object in handbreadths, spans, and rods.
- c. No correct answer - students were to choose which of the 3 measurements was best for their measurement.
- 50. no; 2 lbs
- 52. no; 10 cups
- 54. no; 12 feet
- 56. not reasonable
- 58. $2\frac{1}{2}$
- 60. $\frac{1}{2}$
- 62. $6\frac{1}{2}$
- 64. 21
- 66. 12
- 68. 5

Practice Quiz

- 1. >
- 2. =
- 3. <
- 4. <
- 5. 0.51
- 6. $3/250$
- 7. 1.25
- 8. $1/3$
- 9. $0.8\bar{3}$ (except the line on top #)
- 10. $17/33$
- 11. $11/13$
- 12. $5/36$
- 13. $4^{19}/40$
- 14. $2/3$