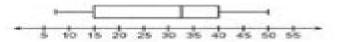
Integrated Algebra Regents at Random Worksheets

- 1 Solve algebraically for x: $2(x-4) \ge \frac{1}{5}(5-3x)$
- 2 Josh and Mae work at a concession stand. They each earn \$8 per hour. Josh worked three hours more than Mac. If Josh and Mac carned a total of \$120, how many hours did Josh work?
 - 15 6
 - 25 9
 - 35 12
 - 43 1.5
- 3 Mr. Laub has three children: two girls (Sue and Karen) and one boy (David). After each meal, one child is chosen at random to wash dishes. If the same child can be chosen for both lunch and dinner, construct a tree diagram or list a sample space of all the possible outcomes of who will wash dishes after lunch and dinner on Saturday. Determine the probability that one boy and one girl will wash dishes after lunch and dinner on Saturday.
- In triangle MCT, the measure of $\angle T = 90^{\circ}$. MC = 85 cm, CT = 84 cm, and TM = 13cm. Which ratio represents the sine of $\angle C$?

5 The box-and-whisker plot below represents the ages of 12 people.



What percentage of these people are age 15 or older?

- 10 2.5
- 3.5 24
- 33) 7.5
- 88.50
- 6 The square dart board shown below has a side that measures 40 inches. The shaded portion in the center is a square whose side is 15 inches. A dart thrown at the board is equally likely to land on any point on the darthoard.



Find the probability that a dart hitting the board will not land in the shaded area.

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