Sample Questions for Math 101-Basic Algebra

Answers are not given for these problems. If you feel comfortable about your solutions, then you probably have a reasonable chance of success in Math 101-Basic Algebra.

1. Perform the indicated operations:
   (a) \(-7 + (-15)\)
   (b) \(-7 - (-15)\)
   (c) \(42 \div (-7)\)
   (d) \(\frac{1}{2} - \frac{5}{6}\)
   (e) \(\frac{2}{3} \div \frac{5}{6}\)

2. 4 is 15% of what number?

3. Simplify: \(2 \cdot 3^2 + 18\)

4. A lot is 125.5 m by 75 m. A house 60 m by 40.5 m and a rectangular swimming pool 10 m by 8 m are built on the lot. How much area is left?

5. Evaluate for \(x = 4\) and \(y = -5\): \(x - 3y + 18\)

6. Find the \textbf{radius}, \textbf{circumference} and \textbf{area} of the following circle.

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\text{radius: } 70\text{ mm}
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