

Placement Test Instructions

This placement test can help you determine whether your child is ready for the Math 7 Teaching Textbook. The test is not perfect, so in making any final placement decision also use common sense.

The student should work independently without the use of a calculator. It is not necessary to time the test, but most students will finish in less than $1\frac{1}{2}$ hours.

Scoring

The test is divided into two sections. Section 1 includes problems 1 – 15. This is the simpler part of the test, covering whole numbers and basics on fractions. Section 2 includes problems 16 – 30. It is the more difficult part of the test, covering fractions, decimals, percents.

The student is probably ready for Math 7 if he/she makes the following scores on the two sections.

**10 or more correct on Section 1 (problems 1 – 15)
and 8 or more correct on Section 2 (problems 16 – 30),**

If the student's score falls below this level, the Math 6 Teaching Textbook is probably a better starting point.

Math 7 Placement Test

Section 1

Add or subtract each group of numbers below.

$$1. \begin{array}{r} 3,475 \\ + 2,598 \\ \hline \end{array}$$

$$2. \begin{array}{r} 862 \\ - 537 \\ \hline \end{array}$$

$$3. 11,219 - 8,435$$

Multiply or divide each group of numbers below. Write any remainders next to your answer.

$$4. \begin{array}{r} 324 \\ \times 4 \\ \hline \end{array}$$

$$5. \begin{array}{r} 84 \\ \times 36 \\ \hline \end{array}$$

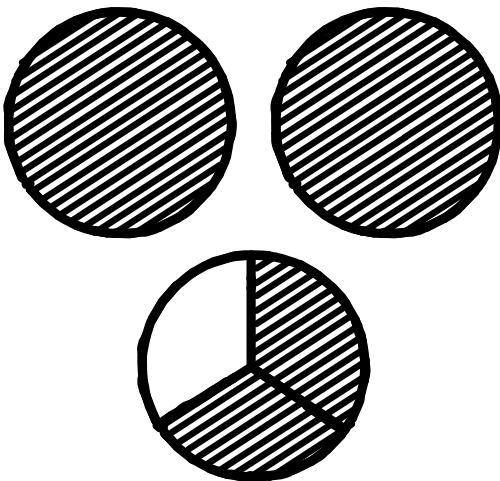
$$6. \begin{array}{r} 165 \\ \times 23 \\ \hline \end{array}$$

$$7. 5 \overline{)7,118}$$

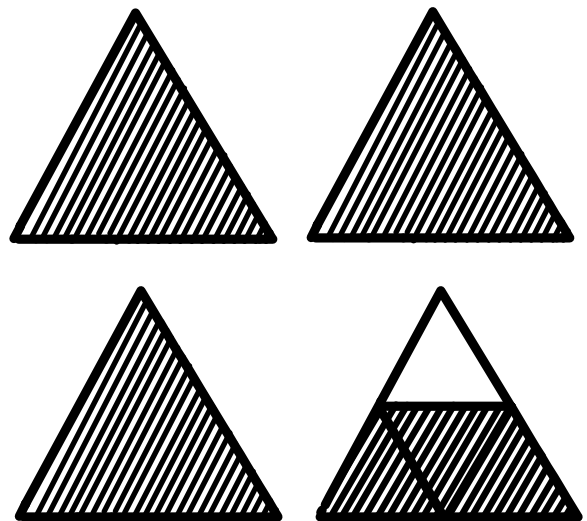
$$8. 31 \overline{)527}$$

Write a mixed number to represent the shaded region in each diagram below.

9.



10.



Reduce each fraction below.

11. $\frac{2}{6}$

12. $\frac{10}{35}$

13. $\frac{12}{18}$

Out of each group of fractions below, tell which fraction is the greatest.

14. $\frac{4}{5}, \frac{1}{5}, \frac{7}{10}$

15. $\frac{3}{4}, \frac{7}{4}, 1\frac{1}{4}$

Section 2

Add or subtract each pair of fractions below. Make sure your answers are fully reduced.

16. $\frac{4}{9} + \frac{1}{9}$

17. $2\frac{1}{7} + 3\frac{3}{7}$

18. $12\frac{3}{4} - 7\frac{1}{4}$

19. $\frac{1}{3} - \frac{1}{6}$

Multiply or divide each pair of fractions below.

20. $\frac{2}{3} \times \frac{1}{7}$

21. $\frac{5}{8} \div \frac{1}{3}$

22. $3 \div \frac{1}{4}$

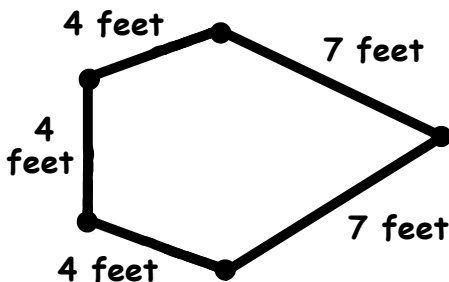
23. $2\frac{1}{2} \times 1\frac{1}{3}$

Add or subtract each pair of numbers below.

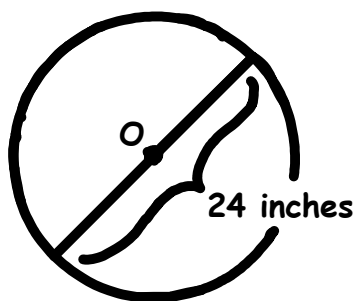
24.
$$\begin{array}{r} 8.29 \\ + 6.47 \\ \hline \end{array}$$

25. $26.31 - 12.54$

26. Calculate the perimeter of the figure below.

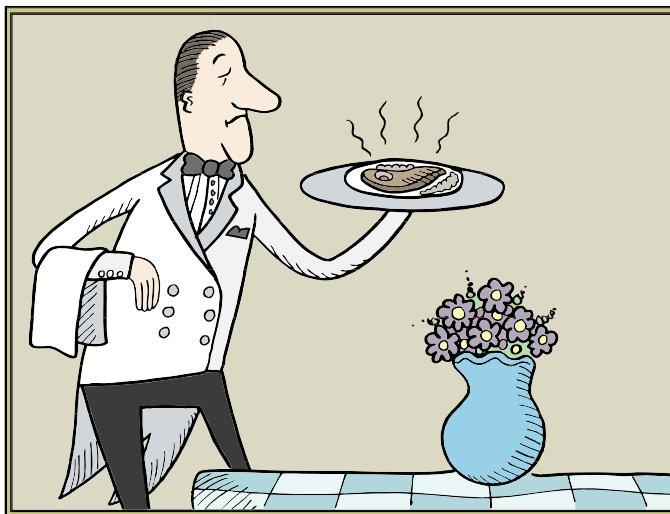


27. What is the radius of circle O below?

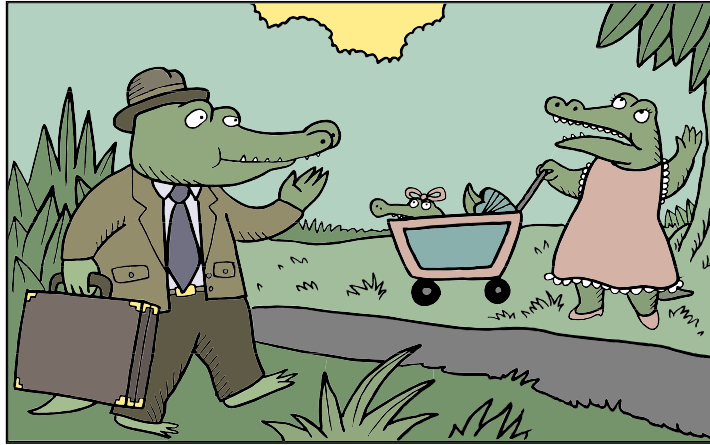


Solve each word problem below.

28. The waiter could serve 12 tables in an hour. If he works an 8 hour shift, how many tables can he serve in total?



29. There are 28 alligators in Alligatorville and each of them has 79 teeth. How many teeth do all the alligators have in total?



30. Starry Skies Inc. has 912 of its most popular handheld telescope in its inventory. If the company can only pack 8 of these telescopes in a crate, how many crates are required to store all the telescopes?



**MATH 7
PLACEMENT TEST**

1. 6,073
2. 325
3. 2,784
4. 1,296
5. 3,024
6. 3,795
7. 1,423 R3
8. 17
9. $2\frac{2}{3}$
10. $3\frac{3}{4}$
11. $\frac{1}{3}$
12. $\frac{2}{7}$
13. $\frac{2}{3}$
14. $\frac{4}{5}$
15. $\frac{7}{4}$
16. $\frac{5}{9}$
17. $5\frac{4}{7}$
18. $5\frac{1}{2}$
19. $\frac{1}{6}$
20. $\frac{2}{21}$
21. $\frac{15}{8}$ or $1\frac{7}{8}$
22. 12
23. $\frac{10}{3}$ or $3\frac{1}{3}$
24. 14.76
25. 13.77
26. 26 feet
27. 12 inches
28. 96 tables
29. 2,212 teeth
30. 114 crates