Intermediate Math Placement Test

Instructions

This placement test can help you determine whether your child is ready for Intermediate Math at TCC. The test is not perfect, so when making any final placement decision, please 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 approximately 1 hour.

Scoring

The test is divided into two sections. Section 1 includes problems 1 – 15. This is the simpler part of the test. Section 2 includes problems 15 – 30, and is the more difficult part of the test. The student is probably ready for Intermediate Math if he/she makes the following scores on the two sections:

10 or more correct on Section 1 (problems 1 – 15)

8 or more correct on Section 2 (problems 16 – 30)

If the student's score falls below this level, Fundamentals of Math is probably a better starting point.

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Show all work!

<u>Section 1</u>

Add or subtract.

1.   32
    + 86

2.   571
    + 248

3.   876
    - 429

4.   4,259
    - 1,286

Multiply.

5.   17
    x 5

6.   84
    x 36

7.   512
    x 43

Divide. Write any remainders next to your answer.

8. $2\overline{)62}$

9. $5\overline{)7,118}$

10. $31\overline{)527}$

11. Draw and shade a diagram that represents the mixed number $2\frac{1}{3}$

12. Draw and shade a diagram that represents 50% being shaded.

13. Write 9% as a fraction. _____

14. Compare the following fractions by using $>$, $<$, or $=$

    A. $\frac{5}{7}$ _____ $\frac{3}{7}$

    B. $\frac{5}{10}$ _____ $\frac{1}{2}$

15. Mom made 34 cupcakes, then gave 17 away. How many does she have left?_____

Section 2

16.   2.37
      + 6.91

17.   64.18
      - 25.46

18.   4.7
      - 3.18

19.   3.5
      x 4

20.   8.32
      x 1.2

21.   .75
      x .4

Add or subtract the fractions below:

22. $\frac{1}{5} + \frac{3}{5}$

23. $\frac{3}{10} + \frac{6}{10} - \frac{2}{10}$

24. Three boys picked a total of 1,347 cherries. If they share the cherries evenly, how many will each boy get?

25. What is the perimeter of a rectangle if its length is 8 cm and its width is 4 cm?

26. $6\overline{)3647}$

27. $24\overline{)4824}$

28.   385
      x 216

29. $10 – ($5.80 + $.28) =

30.   If 67 minus B equals 16, what is the value of B?

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<u>Answer Key</u>

1. 118
2. 819
3. 447
4. 2,973
5. 85
6. 3,024
7. 22,016
8. 31
9. 1,423 r3
10. 17
11. Check drawing
12. Check drawing
13. $\dfrac{9}{100}$
14. A. >   B. =
15. 17 cupcakes
16. 9.28
17. 38.72
18. 1.52
19. 14
20. 9.984
21. .3
22. $\dfrac{4}{5}$
23. $\dfrac{7}{10}$
24. 449 cherries
25. 24 cm
26. 606 r5
27. 201
28. 83,160
29. $3.92
30. B = 51