

Example

Legend has it that a 14th Century Taoist monk created this ancient martial art, while watching the battle between a crane and a snake in a dance to the death.

It was not available to the general public for hundreds of years.

Today, touted as an excellent activity for people of any age with neurological impairments,

Pre-Entrance Trades Test - Math

Example Questions - Answer Key at end of exam

All the Math questions have multiple choice answers. If the answer does not appear as a choice, you may choose **NG** . not given.

1. $4 \times 6 =$
 - a) 64
 - b) 24**
 - c) $6 \frac{1}{4}$
 - d) .4
 - e) NG

2. $42 + 23 =$
 - a) 19
 - b) 29
 - c) 56
 - d) 64
 - e) **NG**

There are several types of math problems on the tests including whole numbers, fractions, decimals, ratio and proportion, percent, roots and powers, algebra and finally circumference, area and volume.

I. WHOLE NUMBERS

1. $7589 + 654 + 2694 + 7501 =$
2. $4500 \cdot 786 =$
3. $895 \times 64 =$
4. $7895 \div 56 =$
5. Is the sum of 4659 and 1458 greater than the difference between 45698 and 34891
 - a) yes
 - b) no

II. FRACTIONS (answers as fractions)

6. $16 \frac{3}{4} + 19 \frac{3}{5} =$
7. $12 \frac{1}{3} \cdot 10 \frac{1}{4}$
8. $4 \frac{1}{2} \div 2 \frac{1}{4}$
9. Which of the following fractions is the smallest?
 - a) $\frac{3}{4}$
 - b) $\frac{1}{2}$
 - c) $\frac{7}{16}$
 - d) $\frac{17}{32}$

III. DECIMALS

10. $15.6 \times 0.032 =$
11. $59.65 \div 7.4 =$
12. $15 + 4.45 + 0.8 + 446.4 =$
13. Write 0.564 as a common fraction
14. Express $6 \frac{3}{8}$ as a decimal number

IV. RATIO AND PROPORTION

15. If $N/16 = 3/4$, $N =$
- 16.

VI. ROOTS AND POWERS

23. $0.6^2 =$
24. $\frac{1}{2}625$
25. Which of the following numbers is the largest?
 - a) $\frac{1}{2}900$
 - b) 6^2
 - c) 3^3
 - d) 2^4

VII. ALGEBRA

26. If $32 = 7N \cdot 3$, then $N =$
27. If $D = F/E$, then $F =$
28. If $2X/4 + 3 = 7$, then $X =$
29. If $5/9 (F-32) = C$, Calculate C when $F = 68$
30. A machinist needs to use two shims with a combined thickness of 0.084. One shim is to be three times as thick as the other. What are the thickness of the shims?

Math Answer Key:

I. WHOLE NUMBERS

1. 18,438
2. 3,714
3. 57,280
4. 140 and 55 remainder
5. b) no

II. FRACTIONS

6. $36 \frac{7}{20}$
7. $2 \frac{1}{12}$
8. 2
9. g) $\frac{7}{16}$

III. DECIMALS

- 10. 0.499
- 11. 8.06
- 12. 466.65
- 13. $141/250$
- 14. 6.375

IV. RATIO AND PROPORTION

- 15. $N = 12$
- 16. 15 kL
- 17. 2668 RPM

V. PERCENT

- 18. 5.34
- 19. 5%
- 20. 0.1575
- 21. $5/1000$
- 22. \$110.40

VI. ROOTS AND POWERS

- 23. .36
- 24. 25
- 25. b) $6^2 = 36$

VII. ALGEBRA

- 26. $N = 5$
- 27. $F = DE$
- 28. $X = 8$
- 29. $C = 20$
- 30. 0.021 and 0.063