

Review Test
Practical Math Foundation
Tier 1 TI 30Xa
Basic Operations

1) $1/(2^2 + 3^2) =$

2) Add 18% of 312 to itself and get?

3) $45 \times (12 \div 8) =$

4) 156% of 415 is?

5) $1/3 + 7/16 =$

6) $5/6 + 3/4 =$ Express the answer as an improper fraction and mixed fraction.

7) Using memory keys or parentheses, calculate $(15.7 + 26.45) \times (45.9 - 23.64) =$

8) $\sqrt{3892729} =$

9) $12.51 + 16.79 =$

10) Memory keys and parentheses serve similar purposes, but which is used for long-term storage?

11) Memory keys and parentheses serve similar purposes, but which is used for short-term storage?

12) $24.56 + (-13.84) =$

- 13) $2 \frac{3}{5} \times \frac{3}{6} =$
- 14) $1874 \times (-87) =$
- 15) 36 of the 40 keys on the TI 30Xa calculator are dual function. How do you access these additional functions?
- 16) Convert 1.875 to a fraction.
- 17) $(14.5 + 18.7)^2 =$
- 18) $-7 - (-8) =$
- 19) $15.78 - 12.8 =$
- 20) Are numbers stored in the memory registers (M1, M2, M3) lost when you turn off the calculator?
- 21) $5 \frac{4}{5} \div \frac{1}{3} =$ Express the answer as an improper fraction.
- 22) $5 \frac{4}{5} \div \frac{1}{3} =$ Express the answer as a mixed fraction.
- 23) $\sqrt{272.25} =$
- 24) $1/1/(5^2 + 12^2) =$
- 25) $((3^2)^2)^2 =$
- 26) Convert $15/7$ to a decimal. Do not round.

Review Test Answer Key

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Basic Operations

- 1) 0.0769 (C9 – $1/x$ Reciprocal)
- 2) 368.16 (C5 – Percentage %)
- 3) 67.5 (C4 – Multiply, Divide)
- 4) 647.4 (C5 – Percentage %)
- 5) $37/48$ (C10 – Fractions)
- 6) $19/12 = 1\ 7/12$ (C11 – d/c Proper & Improper Fractions)
- 7) 938.259 (C6 – Memory M1, M2, M3, STO, RCL, ())
- 8) 1973 (C8 – \sqrt{x} Square Root)
- 9) 29.3 (C2 – Real Numbers)
- 10) Long-term storage = memory keys
(C6 – Memory M1, M2, M3, STO, RCL, ())
- 11) Short-term storage = parentheses ()
(C6 – Memory M1, M2, M3, STO, RCL, ())
- 12) 10.72 (C3 – Negative Numbers)
- 13) $1\ 3/10$ (C10 – Fractions)
- 14) -163,038 (C4 – Multiply, Divide)
- 15) Press the “2nd” key, then hit the key that has the function you want to access written above it in yellow. (C1 – ON/OFF FIX DEG M1, M2, M3)
- 16) $1\ 7/8 = 15/8$ (C12 – $F \leftrightarrow D$ Fraction to Decimal Conversion)
- 17) 1102.24 (C7 – x^2 Square)
- 18) 1 (C3 – Negative Numbers)
- 19) 2.98 (C2 – Real Numbers)
- 20) No (C1 – ON/OFF FIX DEG M1, M2, M3)
- 21) $87/5$ (C11 – d/c Proper & Improper Fractions)
- 22) $17\ 2/5$ (C11 – d/c Proper & Improper Fractions)
- 23) 16.5 (C8 – \sqrt{x} Square Root)
- 24) 169 (C9 – $1/x$ Reciprocal)
- 25) 6561 (C7 – x^2 Square)
- 26) 2.142857143 (C12 – $F \leftrightarrow D$ Fraction to Decimal Conversion)

Review Test
Practical Math Foundation
Tier 1 TI 30Xa
Trigonometry Operations

1) $\text{COS}^{-1}(-.25) =$

2) Why can $\text{SIN}^{-1}(1.5)$ not be calculated?

3) What angle, X , has $\text{SIN}(X) = 0.68$?

4) What angle, X , has $\text{TAN}(X) = 0.75$?

5) How many RADs are in 60 degrees?

6) $\text{TAN}^{-1}(0.35) =$

7) How many GRADs are in 60 degrees?

8) What angle, X , satisfies $\text{COS}(X) = \text{SIN}(23)$

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Trigonometry Operations

- 1) 104.48 degrees (*C15 - COS COS⁻¹*)
- 2) $\text{SIN}^{-1}(N)$ only works when N is between -1 and 1 (*C14 - SIN SIN-1*)
- 3) 42.84 degrees (*C14 - SIN SIN-1*)
- 4) 36.87 degrees (*C16 - TAN TAN-1*)
- 5) 1.047 (*C13 - DEG RAD GRAD Three angle measures*)
- 6) 19.29 degrees (*C16 - TAN TAN-1*)
- 7) 66.67 (*C13 - DEG RAD GRAD Three angle measures*)
- 8) 67 degrees (*C15 - COS COS-1*)