

Sample Advanced Speed Math Problems

- $39 + 52 - 65 =$ _____ .
- $437 \times 11 =$ _____ .
- $200.7 - 2007 =$ _____ (decimal).
- $105 \div 15 =$ _____ .
- $(3 \times 5 + 1) \div 4 - 5 =$ _____ .
- $1\frac{1}{8}\% =$ _____ (decimal).
- MCMII = _____ (Arabic numeral).
- 66 inches = _____ feet (mixed number).
- $717 \div 3$ has a remainder of _____ .
- (*) $295 + 244 + 532 + 554 =$ _____ .
- $10^3 - 2^3 =$ _____ .
- $42 \times 429 =$ _____ .
- $7\frac{1}{5} \div 36 =$ _____ .
- 24 is what percent of 144? _____ % (mix num).
- $\sqrt{196} =$ _____ .
- $5\frac{1}{4} \times 3\frac{1}{4} =$ _____ (mixed number).
- $\frac{3}{40} =$ _____ % (decimal).
- $2.5 \times 24 =$ _____ .
- $8 + 16 + 24 + 32 + 40 + 48 =$ _____ .
- (*) $197 \times 298 =$ _____ .
- $61 \times 75 =$ _____ .
- $\frac{6}{(2)(5^3)} =$ _____ (decimal).
- $32 \times 38 =$ _____ .
- How many even integers are there between -5 and $7\frac{1}{2}$? _____ .
- If $3x - 7 = 9x - 1$, then $x =$ _____ .
- $105 \times 105 =$ _____ .
- $102_8 =$ _____ $_{10}$.
- $61 \times 41 =$ _____ .
- $42 \times 24 =$ _____ .
- (*) $\sqrt{87025} =$ _____ .
- $36 \times 45 = 81 \times$ _____ .
- $6 \text{ ft/sec} =$ _____ ft/min .
- $9\frac{5}{9} \times 9\frac{4}{9} =$ _____ (mixed number).
- $13 \times 13 \times 13 =$ _____ .
- $1 \div 2 + 3 \times 4 - 5 =$ _____ .
- How many positive integral divisors does 92 have?
_____ .
- $\sqrt{3^2 + (-4)^2} =$ _____ .
38.
_____ .
- $72 \times 73 =$ _____ .
- (*) $493754 \div 16.1 =$ _____ .
- $\sqrt{88} = a\sqrt{22}$ and $a =$ _____ .
- $91 \times 95 =$ _____ .

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Answer

For each estimation problem, the exact value (rounded to two decimal places) appears in square brackets.

- | | |
|-----------------------------------|--|
| (1) 26 | (23) $\overline{1216}$ |
| (2) 4807 | (24) 6 |
| (3) -1806.3 | (25) -1 |
| (4) 7 | (26) 11025 |
| (5) -1 | (27) 66 |
| (6) .01125 | (28) 2501 |
| (7) 1901 | (29) 1008 |
| (8) $5\frac{1}{2}$ | * (30) $281 - 309$
[295] |
| (9) 0 | (31) 20 |
| * (10) $1544 - 1706$
[1625] | (32) 360 |
| (11) 992 | (33) $90\frac{20}{81}$ |
| (12) $\overline{18018}$ | (34) 2197 |
| (13) $\frac{1}{5}; .2$ | (35) $\frac{15}{2}; 7\frac{1}{2}; 7.5$ |
| (14) $16\frac{2}{3}$ | (36) 6 |
| (15) 14 | (37) 5 |
| (16) $17\frac{1}{16}$ | (38) $-$ |
| (17) 7.5 | (39) 5256 |
| (18) 60 | * (40) $29135 - 32201$
[30667.95] |
| (19) 168 | (41) 2 |
| * (20) $55771 - 61641$
[58706] | (42) 8645 |
| (21) 4575 | |
| (22) .024 | |