

Autumn Harvest Maths

Long division and long multiplication — with hidden words

Part 1 — Dividing the acorns (3-digit ÷ 1-digit)

The squirrels share their acorns into equal bags. Do each division in the box. Then use the code table: each quotient (answer) turns into a letter. Read the letters from a) to e). Problem f) has a remainder — think about what it means!

a) $4 \overline{) 372}$ Answer: _____	b) $5 \overline{) 615}$ Answer: _____	c) $7 \overline{) 504}$ Answer: _____
d) $6 \overline{) 846}$ Answer: _____	e) $7 \overline{) 917}$ Answer: _____	f) $8 \overline{) 695}$ Answer: _____

f) 695 acorns are packed 8 to a bag. How many full bags? _____ How many acorns are left over? _____

72	123	141	131	84	113	96	93
Z	A	E	L	N	O	T	H

The nut the squirrels love most:

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Part 2 — Sharing the harvest (3-digit ÷ 2-digit)

The farmers share their harvest between market stalls. Divide, then decode: the quotients turn into letters, read from a) to e). Problem f) has a remainder.

a) $12 \overline{) 384}$ Answer: _____	b) $25 \overline{) 675}$ Answer: _____	c) $16 \overline{) 928}$ Answer: _____
d) $19 \overline{) 741}$ Answer: _____	e) $33 \overline{) 858}$ Answer: _____	f) $45 \overline{) 970}$ Answer: _____

f) 970 apples are packed into crates of 45. How many full crates? _____ How many apples are left? _____ How many crates are needed to take ALL the apples? _____

58	24	39	32	27	35	47	26
D	A	E	C	I	P	M	R

A warm autumn drink:

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Each row of the patch has the same number of pumpkins. Multiply, then decode: the products turn into letters, read from a) to f).

$$\begin{array}{r} 234 \\ \times 4 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 517 \\ \times 3 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 806 \\ \times 7 \\ \hline \end{array}$$

Answer:

$$\begin{array}{r} 129 \\ \times 8 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 345 \\ \times \quad 6 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 478 \\ \times \quad 5 \\ \hline \end{array}$$

Answer: _____

2390	1032	2070	1236	936	5642	1551	3480
S	R	D	K	G	U	O	W

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Rows of trees, apples on every tree. Multiply, then decode: the products turn into letters, read from a) to f).

$$\begin{array}{r} 24 \\ \times 36 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 47 \\ \times 25 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 63 \\ \times 18 \\ \hline \end{array}$$

Answer:

$$\begin{array}{r} 39 \\ \times 42 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 56 \\ \times 27 \\ \hline \end{array}$$

Answer: _____

$$\begin{array}{r} 72 \\ \times 45 \\ \hline \end{array}$$

Answer: _____

If each tree gives about 45 apples, about how many apples does the orchard give? _____

A famous sweet apple variety is _____ Delicious. The missing word:

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Answer Key (for the teacher)

Part 1: a) $372 \div 4 = 93$ (H) b) $615 \div 5 = 123$ (A) c) $504 \div 7 = 72$ (Z) d) $846 \div 6 = 141$ (E) e) $917 \div 7 = 131$ (L) → HAZEL. f) $695 \div 8 = 86$ remainder 7: 86 full bags, 7 acorns left over.

Part 2: a) $384 \div 12 = 32$ (C) b) $675 \div 25 = 27$ (I) c) $928 \div 16 = 58$ (D) d) $741 \div 19 = 39$ (E) e) $858 \div 33 = 26$ (R) → CIDER. f) $970 \div 45 = 21$ remainder 25: 21 full crates, 25 apples left, 22 crates needed for all the apples.

Part 3: a) $234 \times 4 = 936$ (G) b) $517 \times 3 = 1551$ (O) c) $806 \times 7 = 5642$ (U) d) $129 \times 8 = 1032$ (R) e) $345 \times 6 = 2070$ (D) f) $478 \times 5 = 2390$ (S) → GOURDS. Estimates: $200 \times 4 = 800$, $500 \times 3 = 1500$, $800 \times 7 = 5600$, $100 \times 8 = 800$, $300 \times 6 = 1800$, $500 \times 5 = 2500$.

Part 4: a) $24 \times 36 = 864$ (G) b) $47 \times 25 = 1175$ (O) c) $63 \times 18 = 1134$ (L) d) $39 \times 42 = 1638$ (D) e) $56 \times 27 = 1512$ (E) f) $72 \times 45 = 3240$ (N) → GOLDEN. Word problem: $36 \times 24 = 864$ trees; $864 \times 45 = 38\,880$ apples (an estimate of $900 \times 45 \approx 40\,000$ is fine).