

Multiply these remember numbers first then letters. These are challenging!



- 1  $2h \times 3u = 6hu$
- 2  $4r \times 3f = 12rf$
- 3  $10k \times 3k = 30k^2$
- 4  $4c \times 2c = 8c^2$
- 5  $7md \times 2d = 14md^2$
- 6  $3e \times 2d \times 5 = 30ed$
- 7  $8y \times 2x \times 3y = 48xy^2$
- 8  $4de \times 3ed \times 2 = 24e^2d^2$
- 9  $5b \times 3c \times bc = 15cb^2$
- 10  $ac \times a \times c \times b = a^2c^2b$
- 11  $2t \times utx \times u = 2u^2t^2x$
- 12  $u \times 2d \times ud = 2u^2d^2$
- 13  $cn \times nc \times ab = abn^2c^2$
- 14  $4v \times 2w \times 5u = 40vwu$
- 15  $abc \times abc = a^2b^2c^2$
- 16  $2abc \times 2cba = 4a^2b^2c^2$
- 17  $9k \times 2ek \times u = 18k^2eu$
- 18  $2y \times 3d \times dy = 6y^2d^2$
- 19  $5fn \times 3 \times fe = 15f^2ne$
- 20  $abc \times bcd = ab^2c^2d$

Divide these, remember that  $\div$  is the same as  $\frac{\quad}{\quad}$ . Simplify the numbers if you can, then the terms.



- Example  $\frac{4 \cancel{8} \cancel{e}^2}{1 \cancel{2} \cancel{e}} = 4e$
- 21  $3u \div 2 = \frac{3u}{2}$
  - 22  $\frac{5 \cancel{1} \cancel{5}^x}{1 \cancel{7}} = 5x$
  - 23  $20k \div 6 = \frac{2 \cancel{0} \cancel{k}}{3 \cancel{6}} = \frac{10k}{3}$
  - 24  $8bc \div 3b = \frac{8 \cancel{b} \cancel{c}}{3 \cancel{b}} = \frac{8c}{3}$
  - 25  $9ch \div 3h = \frac{3 \cancel{9} \cancel{c} \cancel{h}}{1 \cancel{3} \cancel{h}} = 3c$
  - 26  $14ed \div 4d = \frac{7 \cancel{1} \cancel{4} \cancel{e} \cancel{d}}{2 \cancel{4} \cancel{d}} = \frac{7e}{2}$
  - 27  $4g^2 \div 2g = \frac{2 \cancel{4} \cancel{g}^2}{1 \cancel{2} \cancel{g}} = 2g$
  - 28  $\frac{3 \cancel{1} \cancel{5} \cancel{b}^t}{1 \cancel{3} \cancel{1} \cancel{b}^t} = 3$
  - 29  $6ck^2 \div 2k = \frac{3 \cancel{6} \cancel{c} \cancel{k}^2}{1 \cancel{2} \cancel{k}} = 3ck$
  - 30  $16d^2 \div 6d = \frac{8 \cancel{1} \cancel{6} \cancel{d}^2}{3 \cancel{6} \cancel{d}} = \frac{8d}{3}$
  - 31  $\frac{3 \cancel{9} \cancel{d} \cancel{b}^7}{2 \cancel{6} \cancel{d} \cancel{b}^7} = \frac{3b}{2}$
  - 32  $a^2b^2 \div ab^2 = \frac{a \cancel{1} \cancel{b}^2}{1 \cancel{1} \cancel{b}^2} = a$

Find the areas, here are the equations.  $A = L^2$  (square)  
 $A = LB$  (rectangle) and  
 $A = \frac{1}{2}bh$  (triangle).



- Example 1  $A = LB = 3a \times 2b = 6ab$  units<sup>2</sup>
- Example 2  $A = LB = 3x \times 5xa = 15x^2a$  units<sup>2</sup>
- 33  $A = L^2 = 2a \times 2a = 4a^2$  units<sup>2</sup>
  - 34  $A = LB = 4y \times 2u = 8uy$  units<sup>2</sup>
  - 35  $A = LB = 5ef \times 9f = 45ef^2$  units<sup>2</sup>
  - 36  $A = \frac{1}{2}bh = \frac{1}{2} \times 4ea \times eb = 2e^2ab$  units<sup>2</sup>
  - 37  $A = \frac{1}{2}bh = \frac{1}{2} \times 6bcd \times 4abc = 12b^2c^2ad$  units<sup>2</sup>