

Algebra Puzzles

Work out the value of each shape.

$$\heartsuit + \heartsuit + \spadesuit + \spadesuit = 134$$

$$\cross + \cross + \uparrow + \diamond = 127$$

$$\spadesuit + \heartsuit - \diamond + \heartsuit = 48$$

$$\heartsuit + \heartsuit + \heartsuit + \heartsuit = 52$$

$$\triangle + \triangle - \diamond + \spadesuit = 78$$

$$\diamond + \spadesuit + \triangle - \uparrow = 65$$

$$\diamond =$$

$$\spadesuit =$$

$$\cross =$$

$$\uparrow =$$

$$\heartsuit =$$

$$\triangle =$$

Algebra Puzzles

Work out the value of each shape.

$$\text{+} + \text{+} + \text{+} - \text{D} = 114$$

$$\text{Hexagon} =$$

$$\text{>>} + \text{>>} + \text{+} + \text{D} = 164$$

$$\text{D} =$$

$$\text{Heart} + \text{+} - \text{>>} + \text{D} = 50$$

$$\text{+} =$$

$$\text{>>} - \text{Heart} + \text{Hexagon} + \text{Hexagon} = 62$$

$$\text{D} =$$

$$\text{D} + \text{D} + \text{D} + \text{D} = 72$$

$$\text{Heart} =$$

$$\text{D} + \text{D} + \text{>>} - \text{Hexagon} = 110$$

$$\text{>>} =$$

Algebra Puzzles

Work out the value of each shape.

$$\text{D} - \text{C} + \text{E} + \text{D} = 40$$

$$\text{D} =$$

$$(\text{F} - \text{A} + \text{E}) \times \text{D} = 260$$

$$\text{F} =$$

$$\text{D} \times \text{D} - \text{D} = 90$$

$$\text{E} =$$

$$(\text{E} + \text{A}) \times \text{C} + \text{D} = 195$$

$$\text{A} =$$

$$\text{G} \times \text{A} - \text{F} + \text{C} = 88$$

$$\text{A} =$$

$$\text{C} \times \text{D} + \text{C} = 55$$

$$\text{C} =$$

Algebra Puzzles

Work out the value of each shape.

$$\left(\text{Dome} - \text{Arrow} - \text{Trapezoid} \right) \times \text{Trapezoid} = 40$$

$$\text{Arrow} =$$

$$\left(\text{Dome} - \text{Triangle} \right) \times \text{Arrow} + \text{Dome} = 56$$

$$\text{Dome} =$$

$$\text{Trapezoid} \times \text{Arrow} + \text{Trapezoid} = 32$$

$$\text{Triangle} =$$

$$\text{Arrow} \times \text{Pentagon} - \text{Dome} + \text{Triangle} = 72$$

$$\text{Pentagon} =$$

$$\text{Trapezoid} \times \text{Trapezoid} \times \text{Trapezoid} \times \text{Trapezoid} = 256$$

$$\text{Heart} =$$

$$\left(\text{Heart} - \text{Triangle} \right) \times \text{Trapezoid} + \text{Pentagon} = 67$$

$$\text{Trapezoid} =$$

Algebra Puzzles

Work out the value of each shape.

$$\left(\text{Target} - \text{Arrow} \right) \div \text{Crescent} + \text{Diamond} = 26$$

$$\text{Target} =$$

$$\left(\text{Hump} + \text{Hump} + \text{Hump} \right) \times \text{Hump} = 27$$

$$\text{Hump} =$$

$$\text{Diamond} \div \text{Hump} + \text{Arrow} + \text{Hump} = 26$$

$$\text{Crescent} =$$

$$\left(\text{Diamond} - \text{Crescent} + \text{Arrow} \right) \div \text{Hump} = 10$$

$$\text{Arrow} =$$

$$\left(\text{Arrow} - \text{Hump} \right) \times \text{Hump} = 36$$

$$\text{Diamond} =$$

$$\text{Diamond} \div \text{Star} \times \text{Target} - \text{Crescent} = 57$$

$$\text{Star} =$$

Algebra Puzzles

Work out the value of each shape.

$$\text{D} \div \text{>} \times \text{A} + \text{A} = 24$$

$$\text{A} =$$

$$\text{>} \times \text{C} + \text{D} - \text{A} = 126$$

$$\text{+} =$$

$$\text{O} - \text{>} + \text{C} + \text{D} = 50$$

$$\text{>} =$$

$$(\text{D} - \text{A}) \div \text{A} = 5$$

$$\text{C} =$$

$$(\text{+} + \text{+}) \div \text{C} \times \text{A} = 36$$

$$\text{O} =$$

$$\text{A} \times \text{A} - \text{A} = 30$$

$$\text{D} =$$