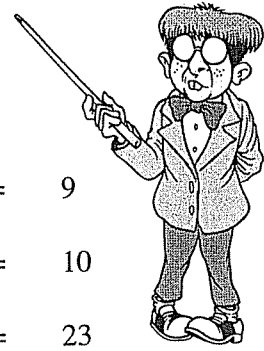


Introducing Algebra 1.



A). Copy the questions and fill in the boxes.

1). $\square + 4 = 7$

2). $\square + 5 = 9$

3). $\square + 9 = 11$

4). $\square + 7 = 10$

5). $15 = \square + 12$

6). $\square + 18 = 23$

7). $\square + 21 = 30$

8). $32 = \square + 23$

9). $25 = 22 + \square$

10). $19 = 7 + \square$

11). $12 + \square = 19$

12). $11 + \square = 23$

13). $47 = 31 + \square$

14). $16 + \square = 30$

15). $22 + \square = 41$

16). $52 + \square = 70$

17). $9 - \square = 4$

18). $7 = 12 - \square$

19). $15 - \square = 8$

20). $18 - \square = 13$

21). $11 = 23 - \square$

22). $32 - \square = 20$

23). $34 - \square = 16$

24). $17 = 45 - \square$

25). $\square - 6 = 7$

26). $\square - 5 = 12$

27). $\square - 10 = 7$

28). $\square - 12 = 4$

29). $12 = \square - 13$

30). $\square - 18 = 9$

31). $\square - 21 = 17$

32). $45 = \square - 34$

33). $4 \times \square = 12$

34). $5 \times \square = 30$

35). $42 = 7 \times \square$

36). $8 \times \square = 72$

37). $\square \times 3 = 27$

38). $24 = \square \times 6$

39). $54 = \square \times 9$

40). $\square \times 12 = 144$

41). $44 \div \square = 11$

42). $36 \div \square = 6$

43). $8 = 72 \div \square$

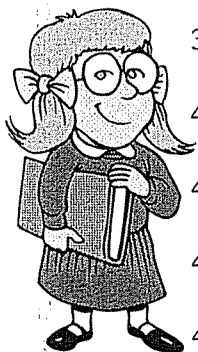
44). $55 \div \square = 5$

45). $\square \div 4 = 7$

46). $5 = \square \div 6$

47). $\square \div 9 = 6$

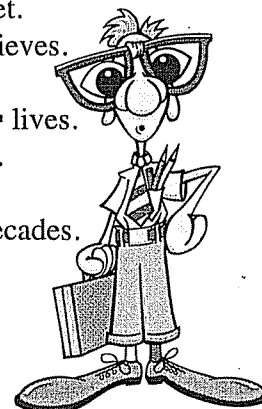
48). $8 = \square \div 8$



B). Copy the following sentences and after each one write in the value of the symbol used. Here is an example of what to do.

e.g. There are \oplus days in one week. $\oplus = 7$.

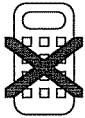
- | | |
|--|--|
| 1). There are \ominus minutes in one hour. | 2). There are \oslash numbers on a dice. |
| 3). A square has got \dagger sides. | 4). A century is \oplus years. |
| 5). \blacktriangleright seconds in a minute. | 6). James Bond 00 \ast . |
| 7). After \blacktriangledown mints. | 8). The \blacklozenge commandments. |
| 9). Around the world in \ast days. | 10). Snow White and the \odot dwarfs. |
| 11). The \otimes bears. | 12). \ast blind mice. |
| 13). \ast years in a decade. | 14). Jesus had \ast disciples. |
| 15). A cube has \Rightarrow faces. | 16). $\text{\textcircled{B}}$ letters in the alphabet. |
| 17). There are \oplus years in half a century. | 18). Ali Baba and the \blacksquare thieves. |
| 19). \odot days in September. | 20). $\text{\textcircled{A}}$ legs on a centipede. |
| 21). \ast Dalmations. | 22). A cat is said to have \oplus lives. |
| 23). \dagger is the number of days in May. | 24). A triangle has \ast sides. |
| 25). \times pin bowling. | 26). \odot toes on your feet. |
| 27). \star hours in a day. | 28). \ast is four and a half decades. |
| 29). \star is three score years and ten. | 30). \diamond is a gross. |



C). Each symbol represents a number. Copy the question. Write what number the symbol is worth. Here is an example of what to do.

e.g. $\ominus + 6 = 9$, therefore $\ominus = 3$

- | | |
|---|--|
| 1). $\diamond + 5 = 7$ | 2). $\ast + 7 = 11$ |
| 3). $7 + \text{\textcircled{A}} = 18$ | 4). $9 + \ast = 23$ |
| 5). $40 = 16 + \heartsuit$ | 6). $\blacklozenge + 32 = 45$ |
| 7). $\spadesuit - 7 = 5$ | 8). $12 = \star - 9$ |
| 9). $15 - \oplus = 3$ | 10). $21 - \opl� = 13$ |
| 11). $9 = 24 - \rightarrow$ | 12). $\ast - 12 = 14$ |
| 13). $7 \times \text{\textcircled{X}} = 28$ | 14). $27 = 9 \times \blacklozenge$ |
| 15). $\text{\textcircled{H}} \times 8 = 24$ | 16). $\text{\textcircled{B}} \times 6 = 54$ |
| 17). $40 = 5 \times \dagger$ | 18). $\text{\textcircled{M}} \times 12 = 84$ |
| 19). $40 \div \odot = 8$ | 20). $35 \div \oplus = 5$ |
| 21). $\opl� \div 4 = 7$ | 22). $2 = \rightarrow \div 9$ |
| 23). $36 \div \text{\textcircled{A}} = 6$ | 24). $\text{\textcircled{B}} \div 9 = 9$ |



Introducing Algebra 2.



- A). Copy the following sentences and after each one write in the value of the letter used. Here is an example of what to do.

e.g. There are **k** days in October. **k** = 31.

- | | |
|---|--|
| 1). u players in a football team. | 2). A rectangle has f sides. |
| 3). The h Days of Christmas (song). | 4). w angles in a triangle. |
| 5). p centimetres in a metre. | 6). u weeks in a year. |
| 7). There are g aces in a pack of cards. | 8). A dozen is r . |
| 9). k legs on a dog. | 10). h days in April. |
| 11). Donald Duck has d nephews. | 12). There are q jokers in a pack of cards. |
| 13). m tentacles on an Octopus. | 14). h continents of the world. |
| 15). There are v Teletubbies. | 16). On a golf course there are u holes. |
| 17). A right angle is w degrees. | 18). c cards in a pack. |
| 19). A spider has r legs. | 20). z pockets on a snooker table. |
| 21). s presenters on Blue Peter. | 22). A pentagon has k sides. |
| 23). z millimetres in a centimetre. | 24). b teams in the Premier League. |
| 25). c up. | 26). A stitch in time saves p . |
| 27). x teeth in your mouth. | 28). m, g buckle my shoe. |
| 29). A Bakers dozen is q . | 30). Henry the 8 th had b wives. |

- B). Each letter represents a number. Copy the question. Write what number the letter is worth. Here is an example of what to do.

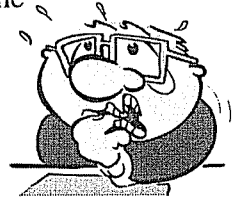
e.g. $t + 4 = 9$, therefore $t = \underline{5}$



- | | |
|-------------------------|--------------------------|
| 1). $a + 3 = 12$ | 2). $f + 7 = 13$ |
| 3). $17 = 5 + c$ | 4). $8 + m = 20$ |
| 5). $t - 4 = 16$ | 6). $12 = d - 5$ |
| 7). $5 = 13 - y$ | 8). $25 - w = 11$ |
| 9). $r \times 3 = 12$ | 10). $18 = k \times 6$ |
| 11). $7 \times p = 28$ | 12). $2 \times j = 26$ |
| 13). $b \div 3 = 7$ | 14). $g \div 5 = 9$ |
| 15). $32 \div f = 4$ | 16). $5 = 50 \div a$ |
| 17). $45 + r = 97$ | 18). $y + 56 = 142$ |
| 19). $67 = 134 - k$ | 20). $h - 76 = 24$ |
| 21). $15 \times e = 90$ | 22). $102 = n \times 17$ |

- C). Each letter represents a number. Copy the number pattern. Write what number the letter is worth. Here is an example of what to do.

e.g. 2 4 6 **h** 10 12, therefore **h** = 8



- | | | | |
|------|-------------------------|------|-------------------------|
| 1). | 3 6 9 12 v 18 21 | 2). | 5 10 b 20 25 30 |
| 3). | p 18 27 36 45 54 | 4). | 4 8 12 16 20 g |
| 5). | 8 16 j 32 40 48 | 6). | 6 q 18 24 30 36 |
| 7). | 10 12 14 16 w 20 | 8). | k 14 21 28 35 42 |
| 9). | 2 5 8 11 14 n | 10). | 1 t 5 7 9 11 13 |
| 11). | 22 20 18 16 b 12 | 12). | 21 18 15 a 9 6 3 |
| 13). | 40 f 30 25 20 15 | 14). | p 36 32 28 24 20 |
| 15). | 54 48 42 36 y 24 | 16). | 99 x 77 66 55 44 |
| 17). | 29 26 23 j 17 14 | 18). | 33 q 29 27 25 23 |
| 19). | e 35 31 27 23 19 | 20). | 47 42 37 32 27 s |
| 21). | 1 8 15 22 m 36 | 22). | 5 d 17 23 29 35 |
| 23). | 64 58 52 y 40 34 | 24). | n 48 39 30 21 12 |

Harder Algebra.



Write each of the following sentences as algebra equations and solve each equation.

- | | |
|--|--|
| 1). ◆ plus five makes nine. | 2). Eight is three more than ◆ . |
| 3). Two lots of * makes 10. | 4). ⊕ is four more than ten. |
| 5). Nine take * leaves two. | 6). ■ plus four makes seven. |
| 7). * add five makes seven. | 8). ⊗ is four less than six. |
| 9). ⊖ minus two makes five. | 10). ⊗ take away three equals 6. |
| 11). Two lots of ⊕ equals eight. | 12). Three lots of * equals fifteen. |
| 13). Two lots of ⊖ , add two equals ten. | 14). Four lots of ⊕ add two equals six. |
| 15). Two lots of ⊗ , take 2 equals eight. | 16). x added to 4 is equal to 11 |
| 17). 4 added to y is equal to 9. | 18). 7 taken from t is equal to 12 |
| 19). 5 subtracted from x is 6. | 20). If 5 is added to x the answer is 14. |
| 21). 4 more than x is 10. | 22). 3 less than y is 5. |
| 23). p minus 4 makes 2. | 24). q added to q makes 14. |
| 25). 19 take m equals 11. | 26). x minus 6 is equal to zero. |
| 27). a is 3 more than 8. | 28). b is 5 less than 7. |
| 29). m added to m makes 22. | 30). The difference between c and 5 is 7. |