EXPONENTS PELMATHISM

AIMSSEC

Any number of players

RULES

For all the games large cards can be downloaded from the Let's Play link and cut out.

Sort the cards into 10 sets in which all the cards have the same numerical value. Put aside cards E1 and E14 and play with the remaining 22 cards which make 11 pairs. Shuffle the cards and place them face down on a table, in rows and columns or just spread out. Players take turns to turn over 2 cards. When the cards match the player keeps the pair and has another turn. If the cards don't match the two cards are turned face down in the same positions and the next player has a turn.

HOW TO WIN

The winner is the player with the most pairs when all the pairs of cards have been claimed.

MATCHING THE CARDS

Work out the numerical value of each card and then sort them into 10 sets where the cards in each set have the same numerical value. The sets will not have the same number of cards in them.

E1 $2^2 \times 3^2$	E2 $3^2 - 2^3$
E3 $2^2 + 2^3$	E4 $2^2 \div 2^3$
E5 $6^8 \div 6^4$	E6 $2^2 - 2^2$
E7 $3^2 + 3^3$	E8 $4^2 \div 2^3$
E9 $2^3 \div 2^{-2}$	E10 $(2^3)^2$
E11 3×2^2	E12 $2^3 \times 2^3$
E13 $5^2 - 3^3$	E14 $(3^2 \times 2^2)^2$

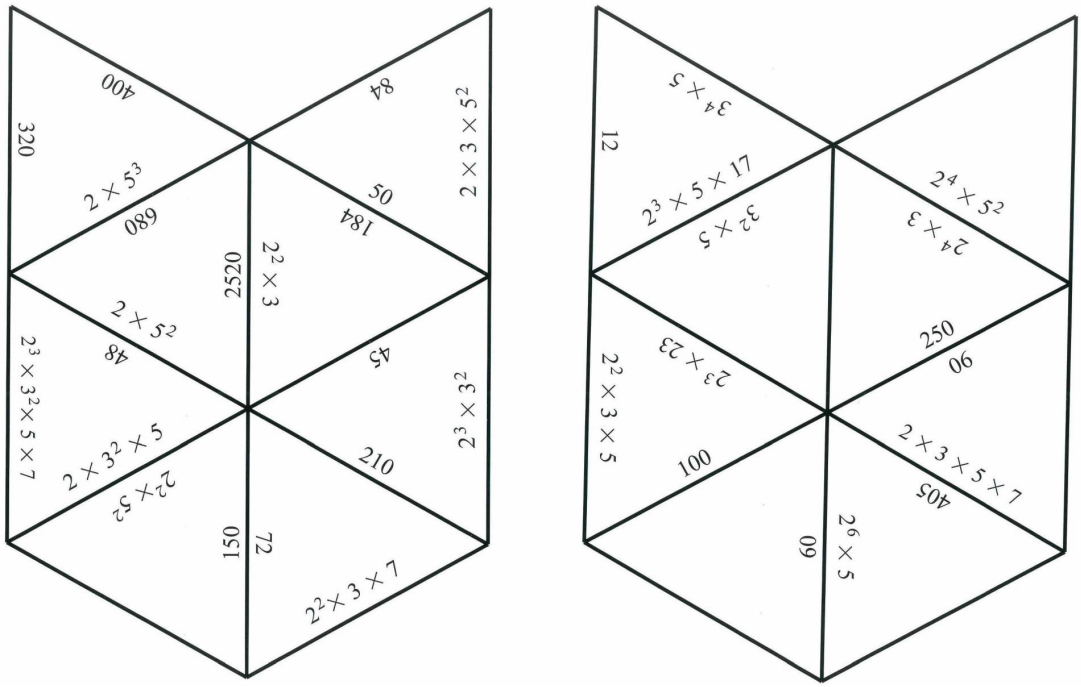
S1 2^1	S2 2^5
S3 $(-2)^1$	S4 2^{-1}
S5 2^0	S6 2^6
S7 6^4	S8 6^2
S9 0^2	S10 4^3

Cards for Exponents game downloaded from the Let's Play link.

NEXT

POWER MATCHING PUZZLE

Download the pieces of the puzzle from the Let's Play link. Cut out the 16 small triangles.
Arrange the 16 pieces into a larger triangle so that the numbers on matching edges are the same, for example $2^2 \times 3 \times 7 = 84$.



Cards for Power Matching Puzzle downloaded From Let's Play link

E cards

Sort E cards and S cards into 10 sets where the cards in each set have the same numerical value. There will be a mixture of E cards and S cards in the sets.

E1 $2^2 \times 3^2$	E2 $3^2 - 2^3$
E3 $2^2 + 2^3$	E4 $2^2 \div 2^3$
E5 $6^8 \div 6^4$	E6 $2^2 - 2^2$
E7 $3^2 + 3^3$	E8 $4^2 \div 2^3$
E9 $2^3 \div 2^{-2}$	E10 $(2^3)^2$
E11 3×2^2	E12 $2^3 \times 2^3$
E13 $5^2 - 3^3$	E14 $(3^2 \times 2^2)^2$

S cards

Sort E cards and S cards into 10 sets where the cards in each set have the same numerical value. There will be a mixture of E cards and S cards in the sets.

S1 2^1	S2 2^5
S3 $(-2)^1$	S4 2^{-1}
S5 2^0	S6 2^6
S7 6^4	S8 6^2
S9 0^2	S10 4^3

$2^4 \times 5^2$
$2^4 \times 3$
250
90
$2 \times 3 \times 5 \times 7$
405
$2^6 \times 5$
60
$3^4 \times 5$
$2 \times 5 \times 17$
$3^2 \times 5$
$2^3 \times 23$
100
12
$2^2 \times 3 \times 5$

$2 \times 3 \times 5^2$
$2^3 \times 3^2$
48
50
184
45
210
$2^2 \times 3 \times 7$
$2^2 \times 3$
72
2520
150
400
2×5^3
080
2×5^2
48
$2 \times 3^2 \times 5$
$2^2 \times 5^2$
320
$2^3 \times 3^2 \times 5 \times 7$