Standard Index Form

Write the following standard numbers in ordinary form.

1)
$$3.5 \times 10^6$$

2)
$$2.7 \times 10^3$$

3)
$$1.25 \times 10^{-5}$$

4)
$$2.2545 \times 10^5$$

5)
$$7.2 \times 10^{-3}$$

Write the following numbers into standard index form.

11)
$$72 \times 10^{-3}$$

12)
$$280 \times 10^3$$

13)
$$0.0000272 \times 10^4$$
 =

14)
$$0.00047 \times 10^{-3}$$

15)
$$36 \times 10^{-7}$$

Simplify and write your answer in standard index form.

16.
$$(1.5 \times 10^3) \times (1.5 \times 10^7) =$$

17.
$$(4.2 \times 10^4) \div (2.1 \times 10^6) =$$

18.
$$(6.3 \times 10^9) \div (2.1 \times 10^{-4}) =$$

19.
$$(3 \times 10^7) \times (4 \times 10^9) =$$

20.
$$(6 \times 10^9) \div (3 \times 10^3) =$$

21.
$$(18 \times 10^8) \div (6 \times 10^2) =$$

22.
$$(4 \times 10^{9}) \times (3 \times 10^{-2}) =$$

23.
$$(3 \times 10^6) \times (5 \times 10^{-4}) =$$

24.
$$(8 \times 10^6) \div (2 \times 10^{18}) =$$

25.
$$7.2 \times 10^{-5} \div 0.0000036 =$$

Addition and Subtraction in Standard Index Form.

26.
$$3 \times 10^{-4} + 3 \times 10^{-5}$$
 =

27.
$$4 \times 10^{-7} - 3 \times 10^{-8} =$$

28.
$$5 \times 10^{-6} - 5 \times 10^{-7} =$$

29.
$$7 \times 10^5 - 8 \times 10^3 =$$

30.
$$6.3 \times 10^5 + 3.2 \times 10^4 =$$

passed through Heathrow Airport. On average, each passenger carried 17.5 kg of luggage. Calculate the total weight of the luggage carried by these passengers.	
Q32. Many people withdraw money from machines. Each day there are eight million withdrawals from 32 000 withdrawals per machine?	their banks by using hole-in-the-wall machines. What is the average number of
Q33. The mass of Saturn is 5.686 × 10 ²⁶ 10 ²¹ tonnes. How many times heavier is standard form to a suitable degree of acc	Saturn than the Earth? Give your answer in
Q34. The population of Italy is 6 × 10 ⁷ The population of San Marino is 3 × 10 ⁷ T population of San Marino. How many time	he population of Italy is bigger than the es bigger?
Q35. If $x = 1.2 \times 10^{-3}$, $y = 8.8 \times 10^{-4}$	
Work out the value of	
a. xy =	
b. 2y ² =	
c. x/y =	
d. xy / (x+ y) =	

Q31. In 2007, British Airways carried 26.3 million passengers. Of these, 60%