展開と因数分解 [素因数分解]

<演習問題> 次の数を素因数分解せよ。 (1) 35		(10)	22
(2)		(11)	32
(3)	40	(12)	42
(0)		(13)	52
(4)	50	(14)	72
(5)	60	(15)	169
(6)	70		
(7)	80	(16)	225
(8)	90	(17)	144
(9)	12	(18)	121

展開と因数分解 [素因数分解]

<演習問題>

次の数を素因数分解せよ。

- (1) 35
- $35 = 5 \times 7$
- (2) 28

$$28 = 2 \times 2 \times 7$$
$$= 2^2 \times 7$$

(3) 40

$$40 = 2 \times 2 \times 2 \times 5$$
$$= 2^3 \times 5$$

(4) 50

$$50 = 2 \times 5 \times 5$$
$$= 2 \times 5^2$$

(5) 60

$$60 = 2 \times 2 \times 3 \times 5$$
$$= 2^2 \times 3 \times 5$$

(6) 70

$$70 = 2 \times 5 \times 7$$

(7) 80

$$80 = 2 \times 2 \times 2 \times 2 \times 5$$
$$= 2^4 \times 5$$

(8) 90

$$90 = 2 \times 3 \times 3 \times 5$$
$$= 2 \times 3^2 \times 5$$

(9) 12

$$12 = 2 \times 2 \times 3$$
$$= 2^2 \times 3$$

(10) 22

$$22 = 2 \times 11$$

(11) 32

$$32 = 2 \times 2 \times 2 \times 2 \times 2$$
$$= 2^5$$

(12) 42

$$42 = 2 \times 3 \times 7$$

(13) 52

$$52 = 2 \times 2 \times 13$$
$$= 2^2 \times 13$$

(14) 72

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$
$$= 2^3 \times 3^2$$

(15) 169

$$169 = 13 \times 13$$
$$= 13^2$$

(16) 225

$$225 = 3 \times 3 \times 5 \times 5$$
$$= 3^2 \times 5^2$$

(17) 144

$$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$$
$$= 2^4 \times 3^2$$

(18) 121

$$121 = 11 \times 11$$
$$= 11$$