

PROCEDURAL ① z. 3.1-3.2

+ 24 2pts. each

An (1a.) $2 \overline{) 34}$ 2×17
17

(1b.) $2 \overline{) 60}$ $2 \times 2 \times 3 \times 5$
 $2 \overline{) 30}$
 $3 \overline{) 15}$
5
 $= 2^2 \times 3 \times 5$

(1c.) $2 \overline{) 32}$ $2 \times 2 \times 2 \times 2 \times 2$
 $2 \overline{) 16}$
 $2 \overline{) 8}$
 $2 \overline{) 4}$
2
 $= 2^5$

(1d.) $2 \overline{) 196}$ $2 \times 2 \times 7 \times 7$
 $2 \overline{) 98}$
 $7 \overline{) 49}$
7
 $= 2^2 \times 7^2$

(2a.) $6^4 = 6 \times 6 \times 6 \times 6$
36
216
 $= 1,296$

(2b.) $1.4^3 = 1.4 \times 1.4 \times 1.4$
1.96
 $= 2.744$

(3a.) $3 \times 3 \times 3 \times 3 \times 3 = 3^5$
9 27 81
 $= 243$

(3b.) $0.7 \times 0.7 \times 0.7 = 0.7^3$
0.49
 $= 0.343$

(4a.) $7 \overline{) 49}$ $13 \overline{) 91}$
7 7

49: 7×7

91: 7×13

$7 = \text{GCF}$

(4b.) $2 \overline{) 54}$ $3 \overline{) 30}$ $2 \overline{) 78}$
 $3 \overline{) 27}$ $2 \overline{) 10}$ $3 \overline{) 39}$
 $3 \overline{) 9}$ 5 13
3

54: $2 \times 3 \times 3 \times 3$

30: $2 \times 3 \times 5$

78: $2 \times 3 \times 13$

$2 \times 3 = 6 \text{ GCF}$

(5a.) $2 \overline{) 36}$ $2 \overline{) 60}$
 $2 \overline{) 18}$ $2 \overline{) 30}$
 $3 \overline{) 9}$ $3 \overline{) 15}$
3 5

36: $2 \times 2 \times 3 \times 3$

60: $2 \times 2 \times 3 \times 5$

$2 \times 2 \times 3 \times 3 \times 5$
4 12 36
 $= 180$
LCM

(5b.)
$$\begin{array}{r} 3 \overline{) 27} \\ 3 \overline{) 9} \\ 3 \end{array}$$

$$\begin{array}{r} 3 \overline{) 15} \\ 5 \end{array}$$

$$\begin{array}{r} 3 \overline{) 12} \\ 2 \overline{) 4} \\ 2 \end{array}$$

27: $(3) \times (3) \times (3)$

15: $(3) \times (5)$

12: $(2) \times (2) \times (3)$

$$(3) \times (3 \times 3 \times 5) \times (2 \times 2)$$

9 — 27 — 135 — 270

$$= (540 \text{ LCM})$$