NUMBER: percentage decreases/increases

Date: **Name:**

Whole Numbers

Solve the percentage **decrease** *problems below. Round answers to 2 d.p.*

[1] Decrease 488 by 23%   **[2]** Decrease 494 by 6%   **[3]** Decrease 509 by 25%

[4] Decrease 15 by 14%   **[5]** Decrease 78 by 23%   **[6]** Decrease 105 by 53%

[7] Decrease 166 by 67%   **[8]** Decrease 181 by 98%   **[9]** Decrease 200 by 30%

[10] Decrease 417 by 20%   **[11]** Decrease 424 by 28%   **[12]** Decrease 438 by 52%

[13] Decrease 12 by 54%   **[14]** Decrease 24 by 179%   **[15]** Decrease 33 by 148%

Solve the percentage **increase** *problems below. Round answers to 2 d.p.*

[16] Increase 410 by 50%   **[17]** Increase 429 by 90%   **[18]** Increase 446 by 41%

[19] Increase 488 by 70%   **[20]** Increase 497 by 58%   **[21]** Increase 513 by 32%

[22] Increase 293 by 68%   **[23]** Increase 403 by 62%   **[24]** Increase 419 by 54%

[25] Increase 562 by 24%   **[26]** Increase 730 by 28%   **[27]** Increase 747 by 73%

[28] Increase 447 by 118%   **[29]** Increase 544 by 141%   **[30]** Increase 552 by 230%

ANSWERS

NUMBER: percentage decreases/increases

Date: **Name:**

Solve the percentage decrease problems below. Round answers to 2 d.p.

[1] Decrease 488 by 23%
= **375.76**

[2] Decrease 494 by 6%
= **464.36**

[3] Decrease 509 by 25%
= **381.75**

[4] Decrease 15 by 14%
= **12.90**

[5] Decrease 78 by 23%
= **60.06**

[6] Decrease 105 by 53%
= **49.35**

[7] Decrease 166 by 67%
= **54.78**

[8] Decrease 181 by 98%
= **3.62**

[9] Decrease 200 by 30%
= **140.00**

[10] Decrease 417 by 20%
= **333.60**

[11] Decrease 424 by 28%
= **305.28**

[12] Decrease 438 by 52%
= **210.24**

[13] Decrease 12 by 54%
= **5.52**

[14] Decrease 24 by 179%
= **-18.96**

[15] Decrease 33 by 148%
= **-15.84**

Solve the percentage increase problems below. Round answers to 2 d.p.

[16] Increase 410 by 50%
= **615.00**

[17] Increase 429 by 90%
= **815.10**

[18] Increase 446 by 41%
= **628.86**

[19] Increase 488 by 70%
= **829.60**

[20] Increase 497 by 58%
= **785.26**

[21] Increase 513 by 32%
= **677.16**

[22] Increase 293 by 68%
= **492.24**

[23] Increase 403 by 62%
= **652.86**

[24] Increase 419 by 54%
= **645.26**

[25] Increase 562 by 24%
= **696.88**

[26] Increase 730 by 28%
= **934.40**

[27] Increase 747 by 73%
= **1292.31**

[28] Increase 447 by 118%

[29] Increase 544 by 141%

[30] Increase 552 by 230%

= 974.46   = 1311.04   = 1821.60