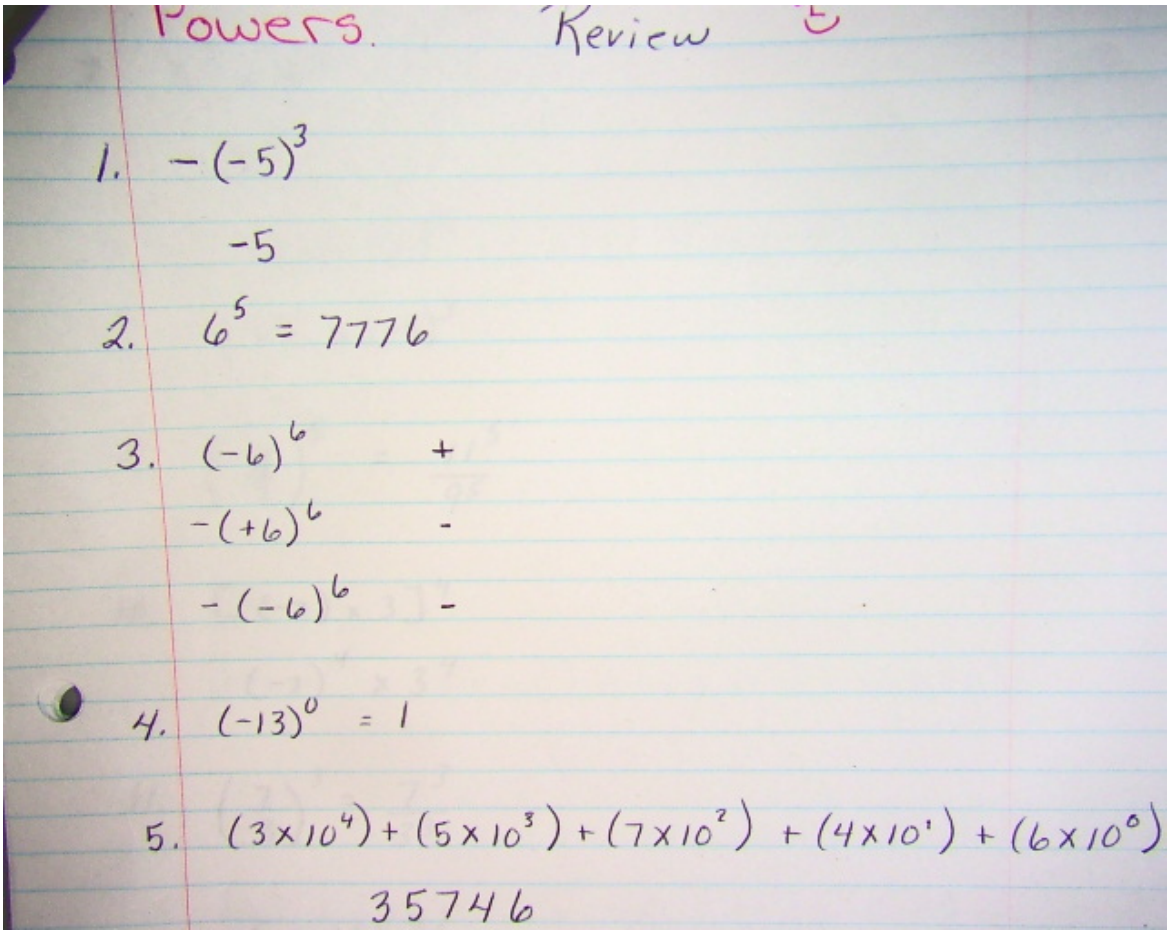
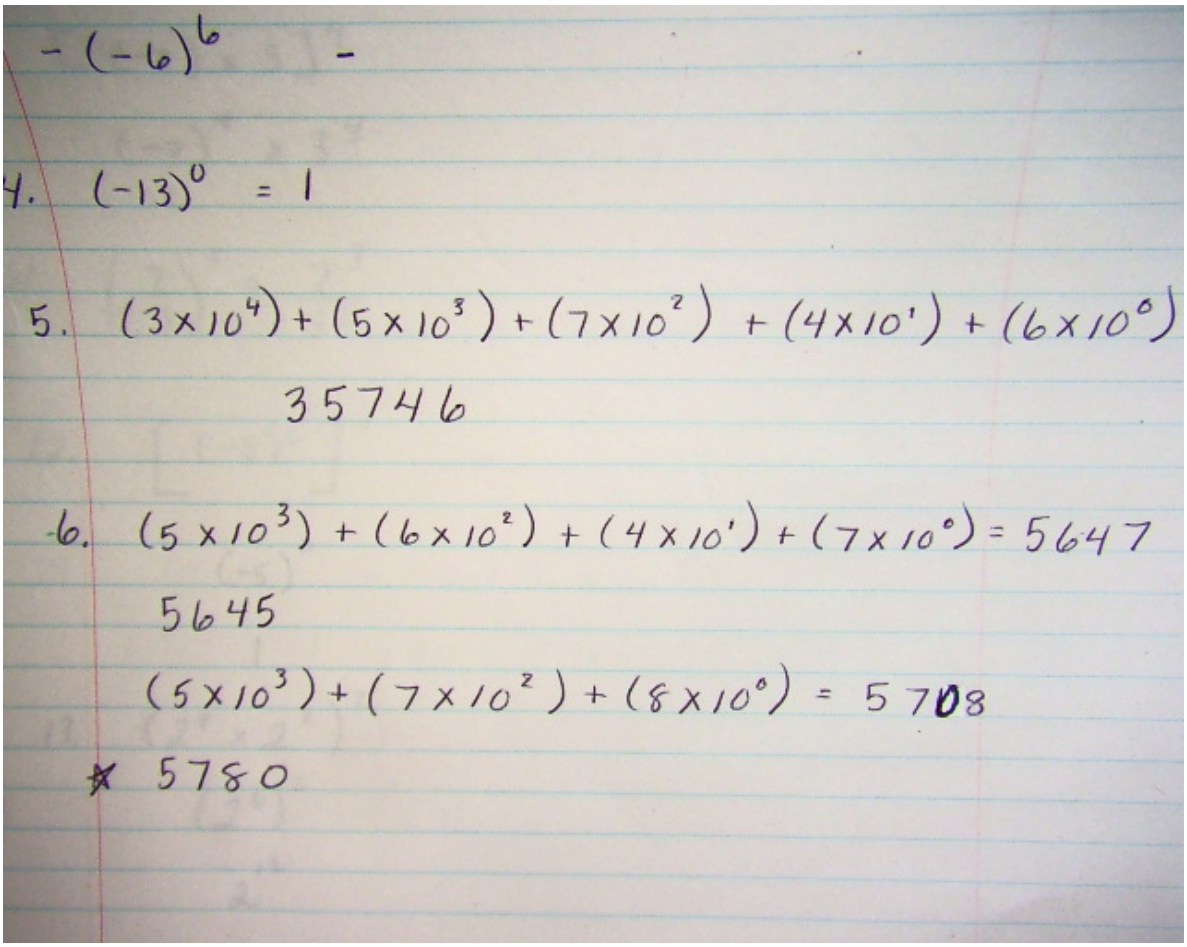

Powers. Review
1. $-(-5)^3$
-5
2. $6^5 = 7776$
3. $(-6)^6$ +
$-(+6)^6$ -
$-(-6)^6$ -
4. $(-13)^0 = 1$
5. $(3\times10^4)+(5\times10^3)+(7\times10^2)+(4\times10^1)+(6\times10^0)$
35746


- (-6)^6 -
4. (-13)^0 = 1
5. (3x10^4) + (5x10^3) + (7x10^2) + (4x10^1) + (6x10^0)
35746
6. (5x10^3) + (6x10^2) + (4x10^1) + (7x10^0) = 5647
5645
(5x10^3) + (7x10^2) + (8x10^0) = 5708
5780

7. $5^3 \times 5^4$

5^7

8. $[(-4) \times (-5)]^3$

$(-4)^3 \times (-5)^3$

9. $\left(\frac{11}{9}\right)^5 = \frac{11^5}{9^5}$

10. $[(-7) \times 3]^4$

$(-7)^4 \times 3^4$

11. $\left(\frac{7}{3}\right)^3 = \frac{7^3}{3^3}$

$(-7)^{1} \times 3^{4}$

11. $\left(\frac{7}{3}\right)^{3} = \frac{7^{3}}{3^{3}}$

12. $\left[(-5)^{0}\right]^{3}$

$(-5)^{0}$

1

13. $(2^{4} \times 2^{2})^{2}$

$(2^{6})^{2}$

2^{12}

14. $(-5)^6$ Base = -5
exponent 6

15. $-(-4)\times(-4)\times(-4)\times(-4)\times(-4)$

$-(-4)^5$

$-(-1024)$

1024

16. 4865

$(4\times10^3)+(8\times10^2)+(6\times10^1)+(5\times10^0)$

17. $(-4)^2 + 3 \times 7$

exponents first

18. $(6)^0 + [10 \div (-2)]^2 - 2$

brackets first

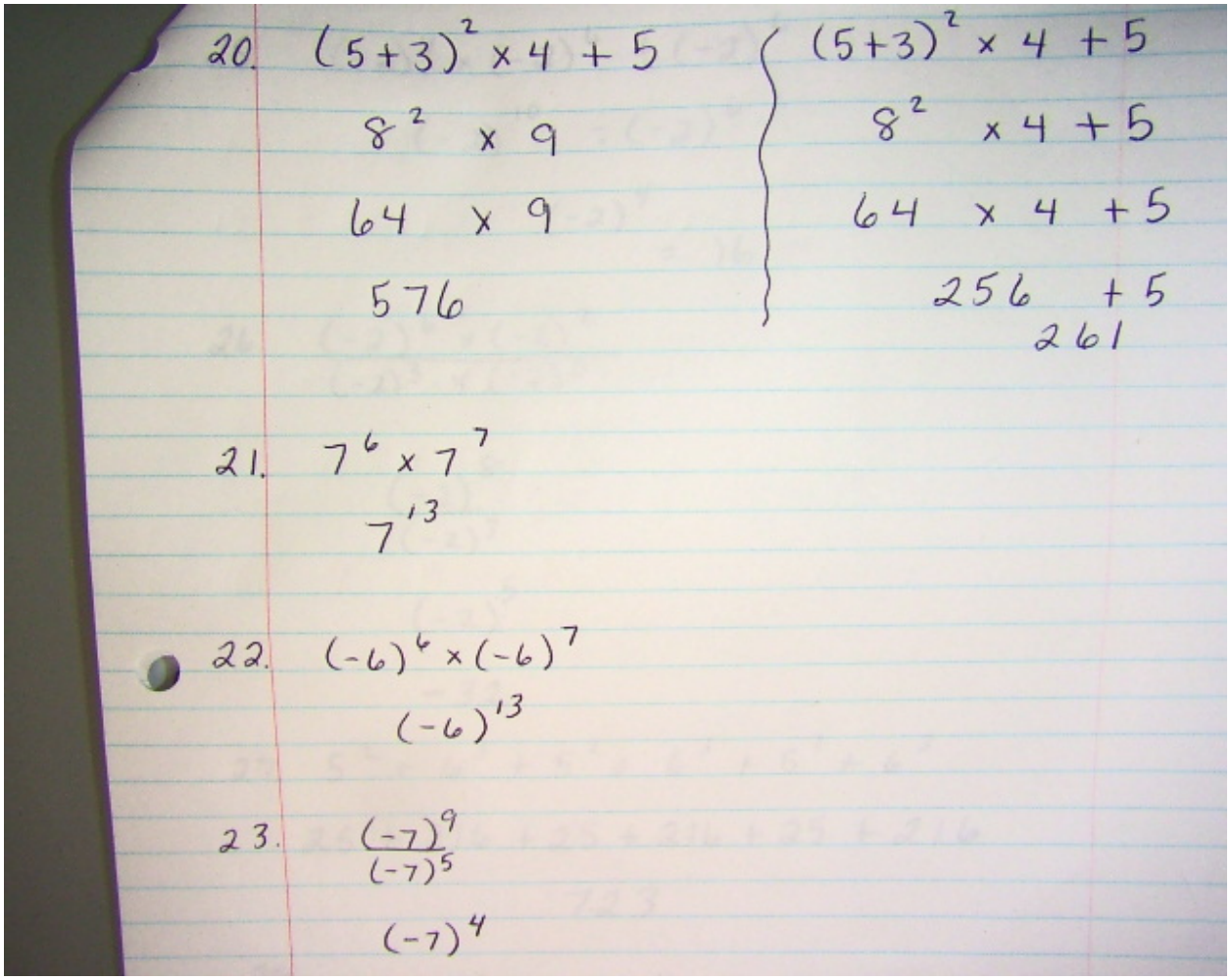
19. $70 \times 2^2 + 80 \times 3^2 \times 0.75$

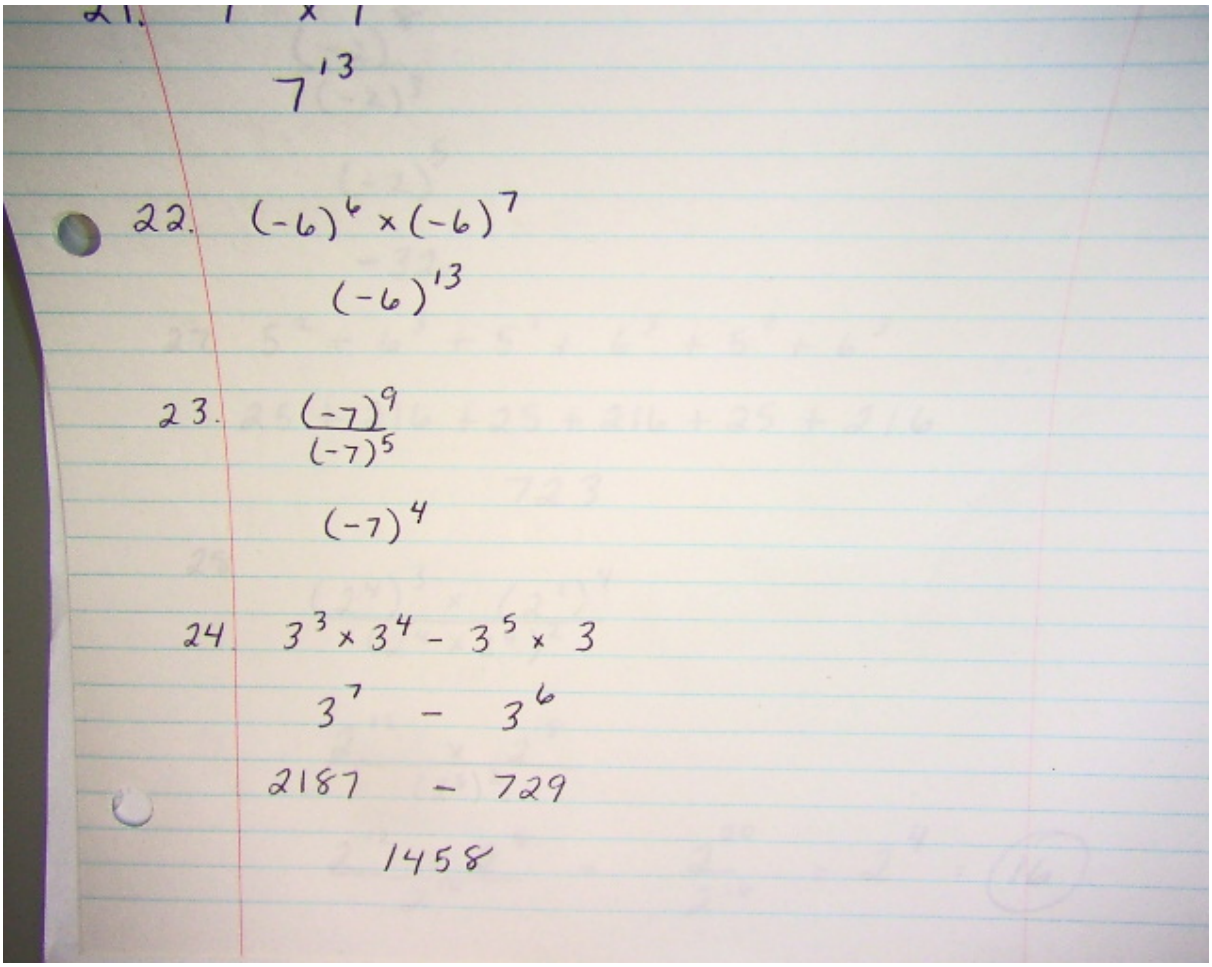
$70 \times 4 + 80 \times 9 \times 0.75$

$280 + 540$

820

22. Write the product of $(-6)^6 \times (-6)^7$ as a single


20. $(5+3)^2 \times 4 + 5$
$8^2 \times 9$
64×9
576
$(5+3)^2 \times 4 + 5$
$8^2 \times 4 + 5$
$64 \times 4 + 5$
$256 + 5$
261
21. $7^6 \times 7^7$
7^{13}
22. $(-6)^6 \times (-6)^7$
$(-6)^{13}$
23. $\frac{(-7)^9}{(-7)^5}$
$(-7)^4$



21. 7^{13}

22. $(-6)^6 \times (-6)^7$

$(-6)^{13}$

23. $\frac{(-7)^9}{(-7)^5}$

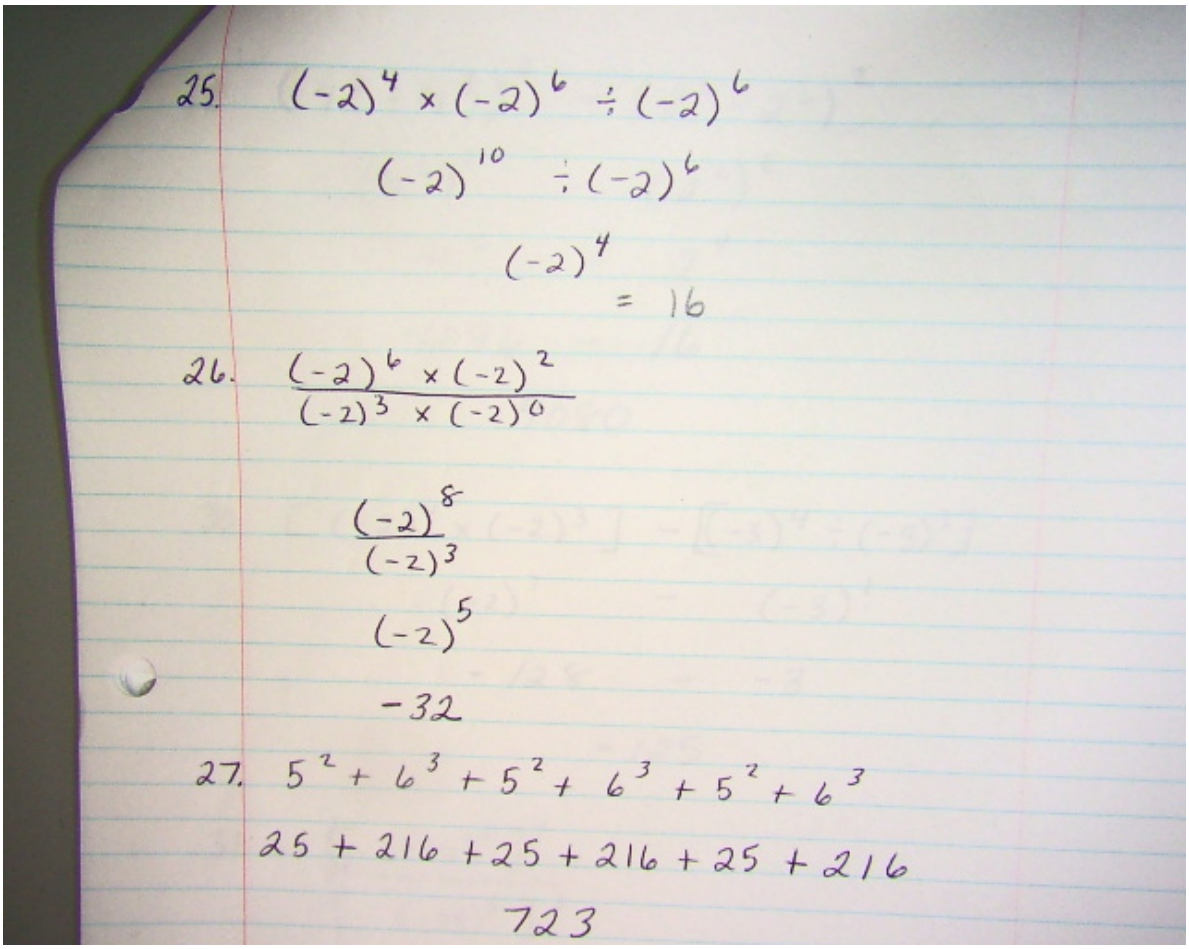
$(-7)^4$

24. $3^3 \times 3^4 - 3^5 \times 3$

$3^7 - 3^6$

$2187 - 729$

1458



25. $(-2)^4 \times (-2)^6 \div (-2)^6$

$(-2)^{10} \div (-2)^6$

$(-2)^4$

$= 16$

26. $\dfrac{(-2)^6 \times (-2)^2}{(-2)^3 \times (-2)^0}$

$\dfrac{(-2)^8}{(-2)^3}$

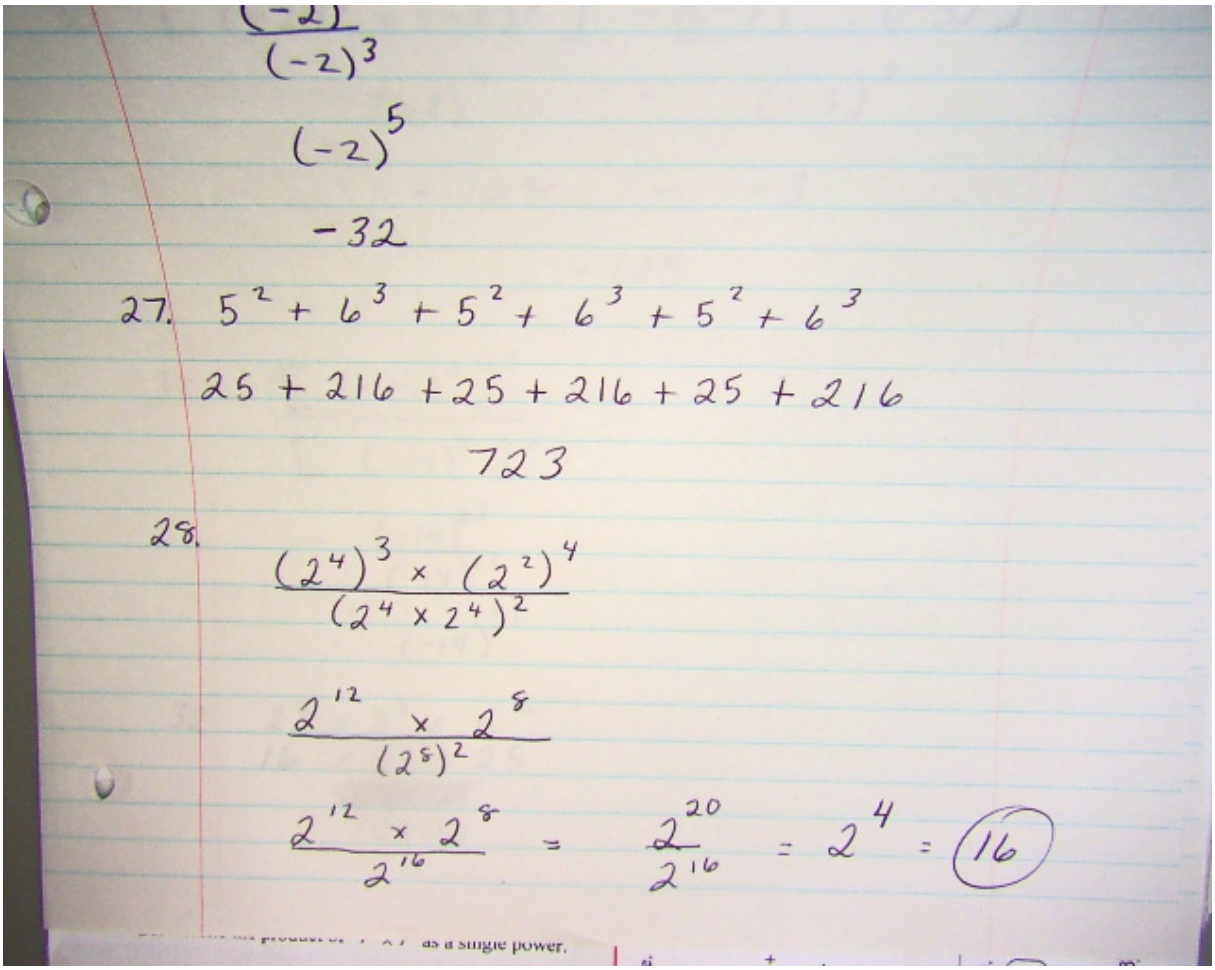
$(-2)^5$

-32

27. $5^2 + 6^3 + 5^2 + 6^3 + 5^2 + 6^3$

$25 + 216 + 25 + 216 + 25 + 216$

723



$(-2)^3$

$(-2)^5$

-32

27. $5^2 + 6^3 + 5^2 + 6^3 + 5^2 + 6^3$

$25 + 216 + 25 + 216 + 25 + 216$

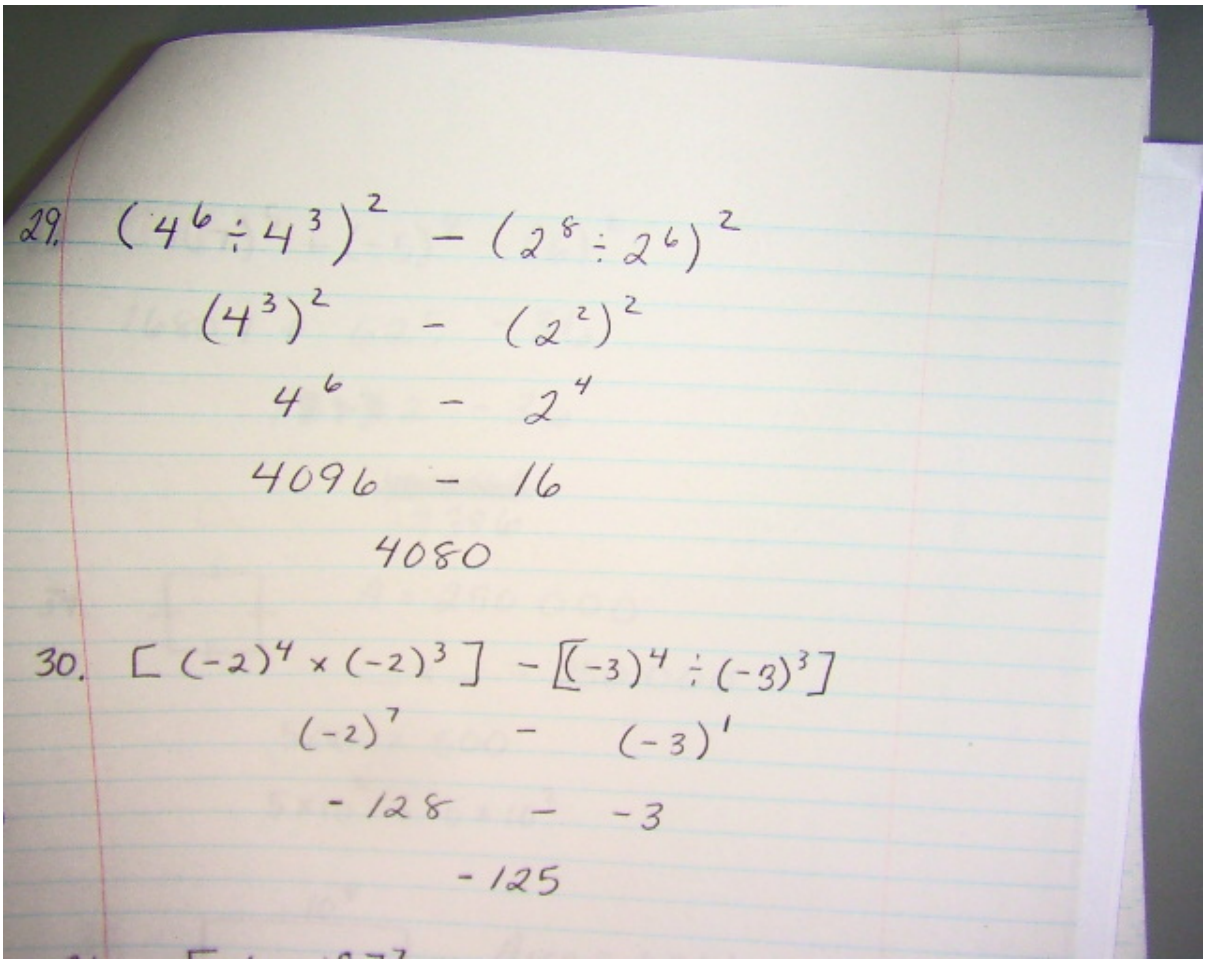
723

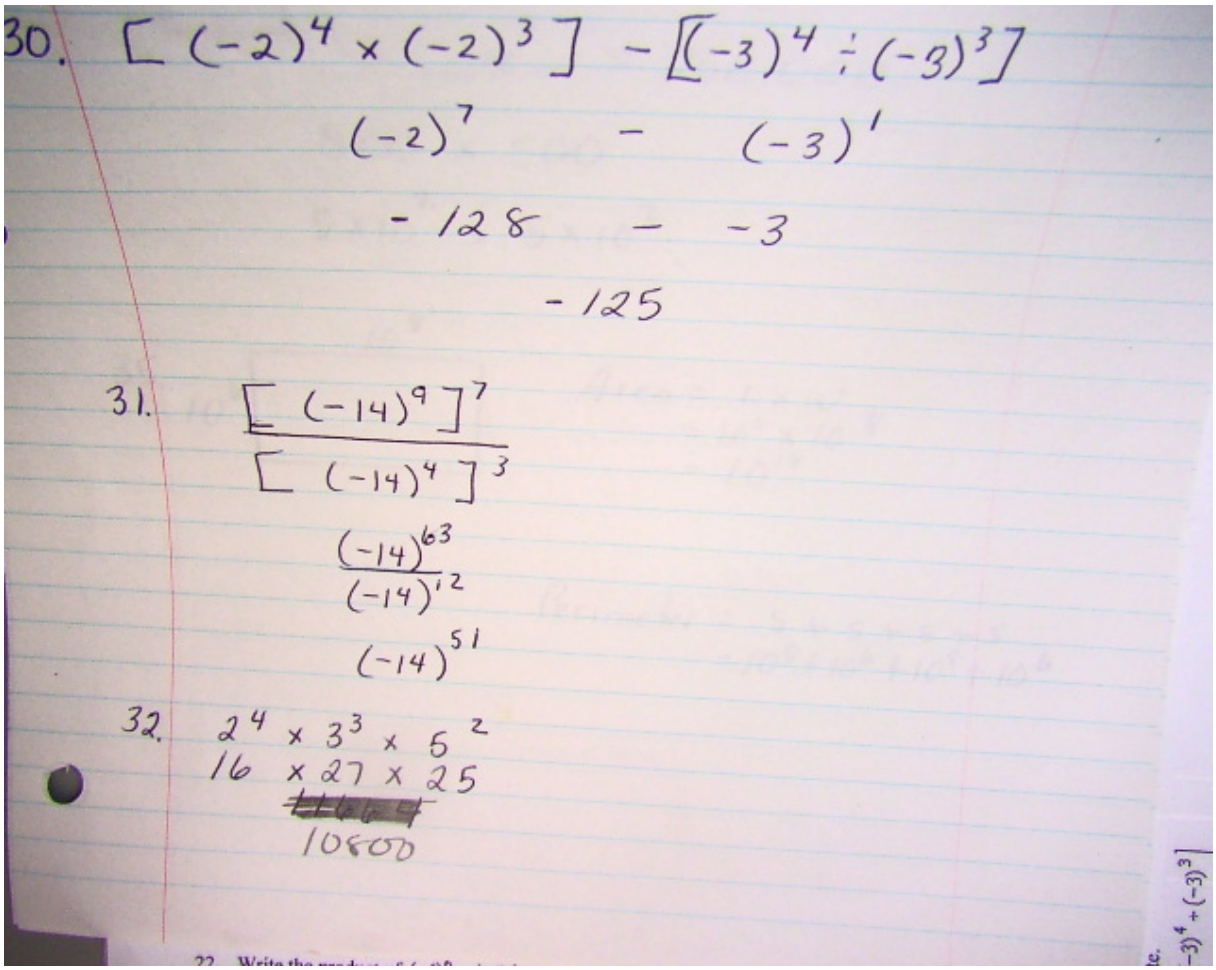
28. $\dfrac{(2^4)^3 \times (2^2)^4}{(2^4 \times 2^4)^2}$

$\dfrac{2^{12} \times 2^8}{(2^5)^2}$

$\dfrac{2^{12} \times 2^8}{2^{16}} = \dfrac{2^{20}}{2^{16}} = 2^4 = 16$

as a single power.


29. $(4^6 \div 4^3)^2 - (2^8 \div 2^6)^2$
$(4^3)^2 - (2^2)^2$
$4^6 - 2^4$
$4096 - 16$
4080
30. $[(-2)^4 \times (-2)^3] - [(-3)^4 \div (-3)^3]$
$(-2)^7 - (-3)^1$
$-128 - -3$
-125



30. $[(-2)^4 \times (-2)^3] - [(-3)^4 \div (-3)^3]$

$(-2)^7 - (-3)^1$

$-128 - -3$

-125

31. $\dfrac{[(-14)^9]^7}{[(-14)^4]^3}$

$\dfrac{(-14)^{63}}{(-14)^{12}}$

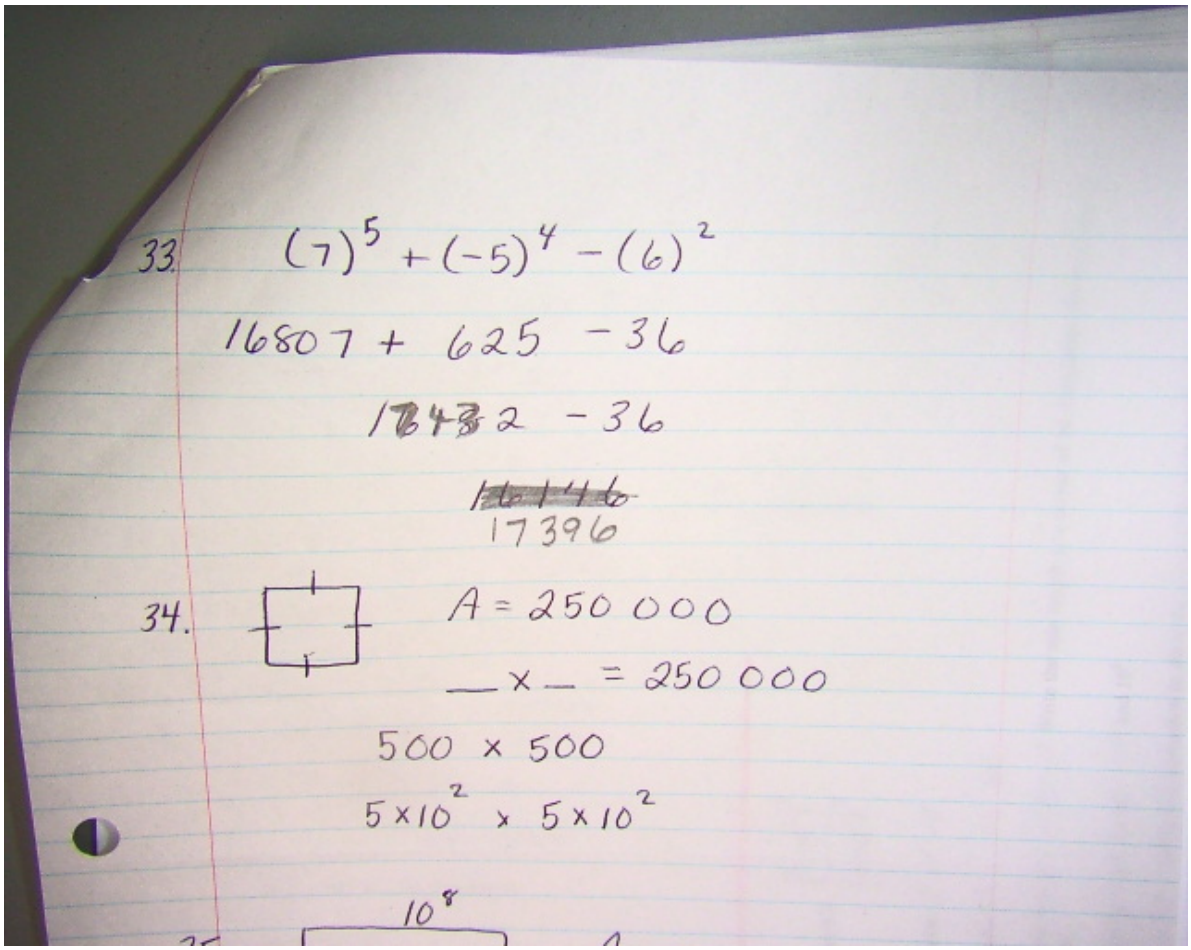
$(-14)^{51}$

32. $2^4 \times 3^3 \times 5^2$

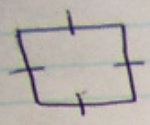
$16 \times 27 \times 25$

~~1664~~

10800


33. $(7)^5 + (-5)^4 - (6)^2$
16807 + 625 - 36
17432 - 36
17396
34.
A = 250 000
__ x __ = 250 000
500 x 500
$5 \times 10^2 \times 5 \times 10^2$
10^8

~~1446~~
17396

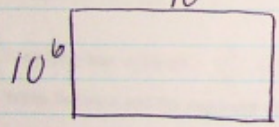
34. 

$A = 250\,000$

$\_ \times \_ = 250\,000$

500×500

$5 \times 10^2 \times 5 \times 10^2$

35. 

Area = $L \times w$
$= 10^6 \times 10^8$
$= 10^{14}$

Perimeter = $s + s + s + s$
$= 10^8 + 10^6 + 10^8 + 10^6$