Introduction to Excel For New Math Students Instructor: Phil E.

Single Operations

$$2+2=2+2$$

$$5h_{i}ft$$

Multiple Operations

Simplify
$$4+5\times6$$

Simplify $4+5\times6$
 $4+30=34$
 $=4+5\times6$

Shift 8

Parenthesis Exponents Multiplication Division Addition Subtraction

Operations with Parentheses:

```
Simplify 6 (4+5)

Times: Put & between 6 and (

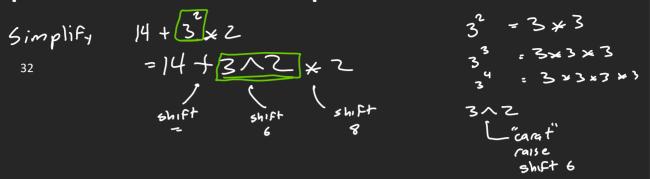
Excel work know it's times unless we say it.

= 6 × (4+5)

| Shift |
| Shift |
| Copen (Close)
```

Basic Operations with Larger Numbers:

Operations with Exponents:



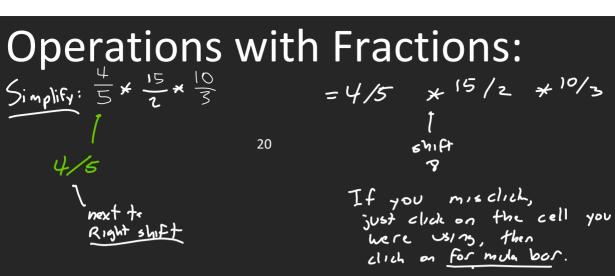
Operations with Square Roots:

Simplify 3*
$$\sqrt{16} + 2$$
 savare poot = special Formula

14 = 3 × sqrt(16) + 2

Sqrt (number)

shift shift shift shift
3 q 0 =



Operations with Complex Fractions:

Fractions and percents:

Change 3/8 to a decimal, then to a percent. Round the answers to two decimal places.

decimal percent

0.38 37.50%

Excel Changes

Fraction -> Decimal

To get percent

Number

To get percent

Colick on it.

To Get percent

Number

Number

Number

Number

Number

To get percent

Number

Number

Number

Number

Number

Number

Number

Percentages and Excel:

If a pair of jeans that is usually \$50 is on sale, and marked 60% off:

A. Find the discount amount, and paint the answer cell red.

B. Find the sale price and paint the answer cell gold.

Discount List & Percent

Amount price Discount

nt

List Price S
Percent Discount

shift-4 for 3 shift-5 for X

Firel List _ Dixant price price Amount

Discount Amount Final Price \$60 =B7*B8 \$20 =B7-B10

Take list price times percent discount.

Take list price minus discount amount

Comparison Shopping

Imagine you're trying to buy a \$400 TV. If store A is offering \$50 off, and store B is offering 15% off,

A. Find the discount that store B is offering.

B. Find which store charges less for the TV.

Olscounte List & percent

List Price Discount Percent Discount Amount Final Price

 Store B
 \$400
 15%
 \$60
 \$340

 Store A
 \$400
 \$50
 \$350

Final List - Discount

More Percentages and Excel:

If you pay 5% tax and a 15% tip on a meal that costs \$25.00, how much are you really paying?

A. Find the Tax amount.

B. Find the Tip amount.

C. Add part A and B to the original cost to get the total.

List Price \$25
Tax Percentage 5%

Tax Amount \$1.25 Use list price times tax percentage

=B8*B9

Tip Percentage 15%

Tip Amount \$3.75 Use list price times tip percentage

=B8*B12

Final total \$30.00 Use tax+tip+list price =B10+B13+B8



82

70

83

78

76

57

58

94

87

Exam 3

52

60

52

94

74

98

81

59

54

If you make a
mistake with black closs
use [ctrl-Z] or comm

A. Find the average grade for each student.

92

77

89

77

91

65

82

55

79

Exam 1

Student A

Student B

Student C

Student D

Student E

Student F

Student G

Student H

Student I

B. Find the lowest and highest grade for each exam.

Exam 2

しかいら	= Average (select grades) shift sh
	9
rage	92 82 52 73 =average(B7:E
74.75	32 82 32 73 -average(B7.6
76.5	71.75
73.75	74.75 to copy afor
74.75	9 click on the
75	formula you
76.5	

77.75 =AVERAGE(B18:E18) 81.75 =AVERAGE(B19:E19)

72.5

64.5

79.25 80.25 66.25

73

امی

Ave

73

99

71

50

59

86

69

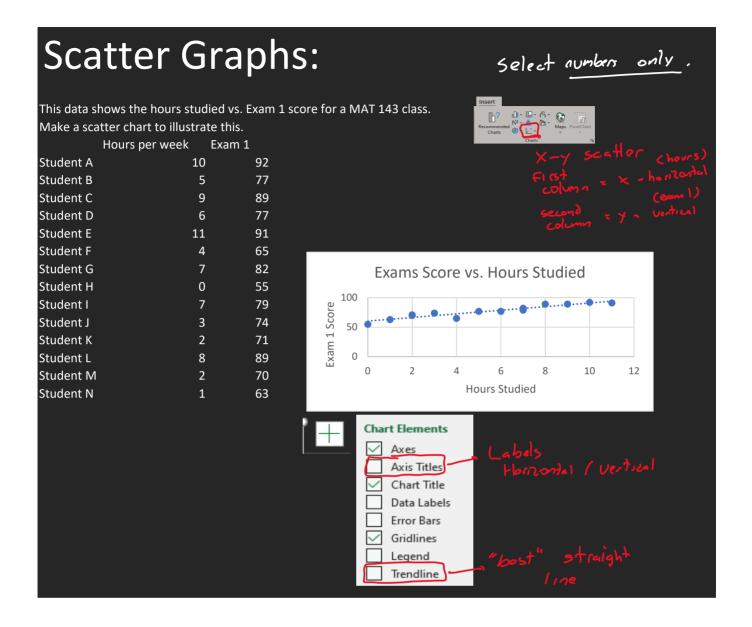
50

97

Exam 4

92	82	52	73 =average(B7:E7
74	4.75	To .	copy aformul
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			പ്രാട്ട

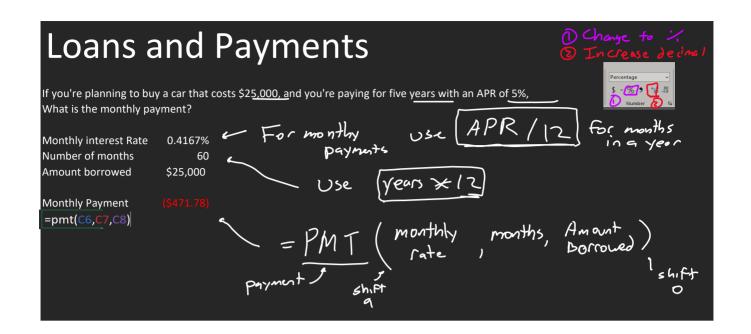
student J	74	09	23	22
Student K	71	65	51	78
Student L	89	51	89	82
Student M	70	100	68	89
Student N	63	65	87	77
_owest:	55	51	51	50
Highest:	92	100	98	99



Expenses and Income

Income Expenses

Name Amount Times Name Amount Times



Investments and Annuities

If you start with \$2000 in an investment account for your child's college fund, And then invest \$200 a month every month for 10 years, How much will you have in the account?

Monthly interest Rate Number of months Monthly Deposit Starting Money

Future Value