Properties of Addition continued

Distributive Property

Distributive property (addition form)	$a(b+c)=ab+ac$	$6(x+3)=6x+18$
Distributive property (subtraction form)	$a(b-c)=ab-ac$	$4(x-5)=4x-20$

$7 \cdot 9 = 7 \cdot (5+4)$

$= 7 \cdot 5 + 7 \cdot 4$

$= 35 + 28$

$= 35 + 20 + 8$

$= 55 + 5 + 3$

$= 60 + 3$

$= 63$

Associative property

$$8 \cdot 8 = 8 \cdot (5+3)$$

$$= 8 \cdot 5 + 8 \cdot 3 \quad (2+1)$$

$$= 40 + 8 \cdot 2 + 8 \cdot 1$$

$$= 40 + 16 + 8$$

$$= 56 + 8$$

$$= 64$$

$3 \cdot 50$

$= 3 \cdot (25 + 25)$

$= 3 \cdot 25 + 3 \cdot 25$

$= 75 + 75$

$= 150$

Can't do:

$3 \cdot 50$

$(2+1) \cdot (25+25)$

$= 2 \cdot 25 + 2 \cdot 25 + 1 \cdot 25 +$
$1 \cdot 25 + 2 \cdot 25 + 2 \cdot 25 +$
$1 \cdot 25 + 1 \cdot 25$

Using Distributive Property Solve:

$111 \cdot 2$

$(100+10+1) \cdot 2$

$= 100 \cdot 2 + 10 \cdot 2 + 1 \cdot 2$

$= 200 + 20 + 2$

$= 222$

$111 \cdot 2$

$111 \cdot (1+1)$

$= (111 \cdot 1) + (111 \cdot 1)$

$= 111 + 111$

$= 222$

$$25.77 \cdot 5$$

$$(25 + .77) \cdot 5$$

$$(5 \cdot 25) + (5 \cdot .77)$$

$$125 +$$

wer? Estimating is more exact depending on

On what you are doing. Some cases it is Wrongz to estimate.

OK to estimate

-how long to live

-crayons

-tip

long to drive

Not OK to estimate:

first down

building

driving directions

Shooting missiles

-jumping

Skydiving

-paying ticket

-giving tickets

① 265 + 410 + 335

300 + 400 + 325

700 + 325

1025

2 Answer?

885 − 155

890 − 150

740

3 Answer?

$2,500 + 1,730 + 70$

$2,500 + 1800 + 50$

$3000 + 1,300 + 50$

$4,350$

Round Whole Numbers and Decimals

4 Answer? 4,725,806

find your # and look right next door

4 or less ignore

5 or more add 1 more

5 Answer?

$9.37 per hour

Round to the tenth place

find your #
look right next door
4 or less ignore and
5 or more add
1 more

Subjects and Predicates

Every sentence has a subject and a predicate.

Subject is the noun that the sentence is about.

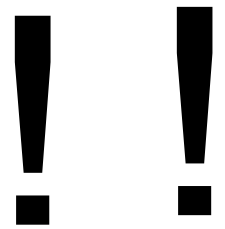
Often but NOT ALWAYS the subject of the sentence in on the beginning part of the sentence.

Your predicate tells you what the subject did or who it is

In your predicate you will find a verb

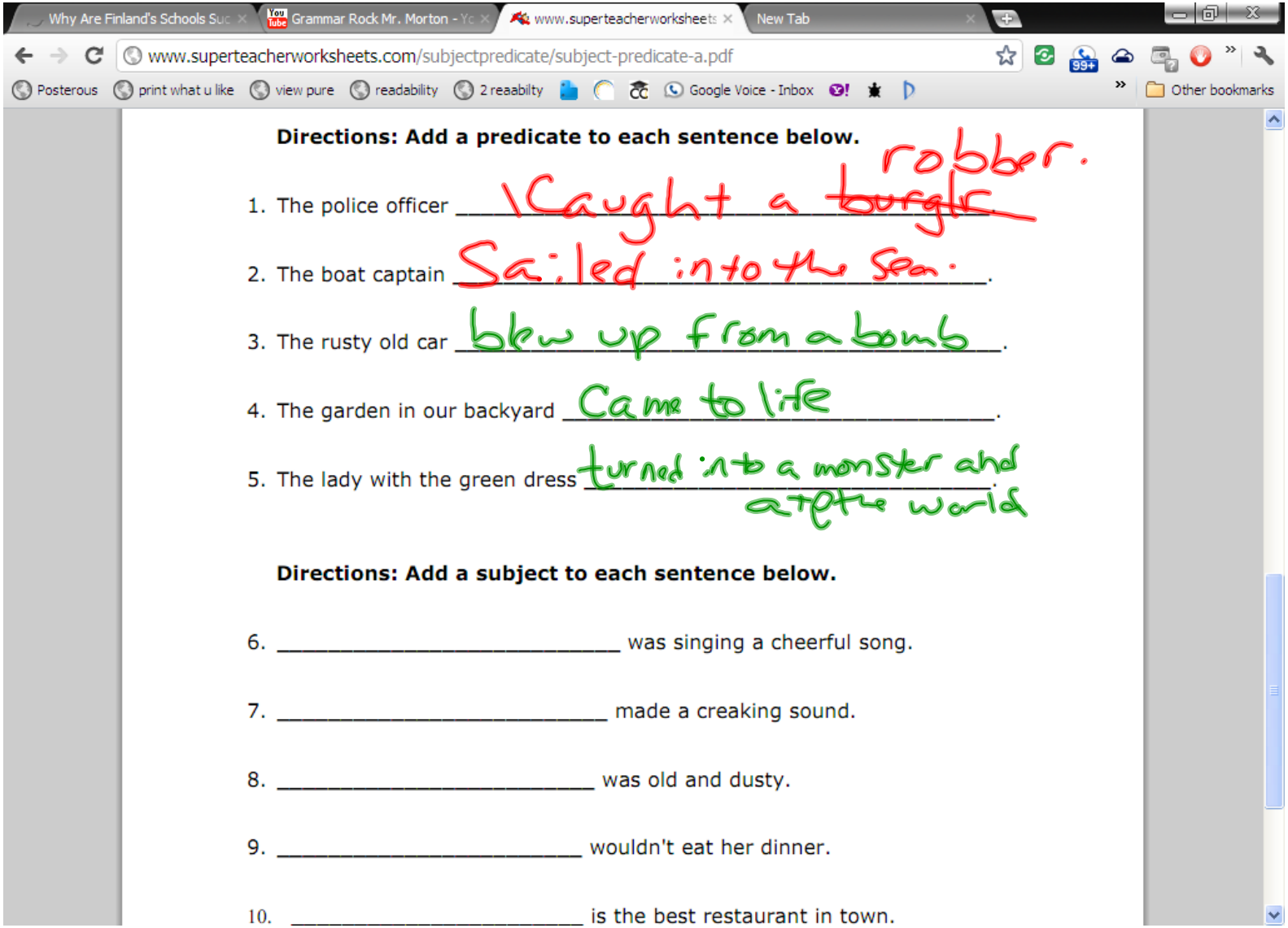
declarative sentences -- tell something and ends with a period

exclamatory sentences --- expresses strong feelings and ends with an exclamation mark



An interrogative sentence --- asks a question and ends with a question mark

imperative sentence gives a request or an order and usually ends with a period.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Directions: Add a predicate to each sentence below.
1. The police officer I caught a burglar robber.
2. The boat captain Sailed into the sea.
3. The rusty old car blew up from a bomb.
4. The garden in our backyard Came to life.
5. The lady with the green dress turned into a monster and ate the world
Directions: Add a subject to each sentence below.
6. _____ was singing a cheerful song.
7. _____ made a creaking sound.
8. _____ was old and dusty.
9. _____ wouldn't eat her dinner.
10. _____ is the best restaurant in town.