Warm-Up

1. 150 ÷ 5

30

2. 500 - 297

500 - 300

200

subtracted 3 too many so add on

203

3. 10% of a number is 20. What is the number?

$10\% \times n = 20$

change to decimal

$0.10n = 20$

Solve for n (by ÷ both sides by 0.10)

$\frac{0.10n}{0.10} = \frac{20}{0.10}$

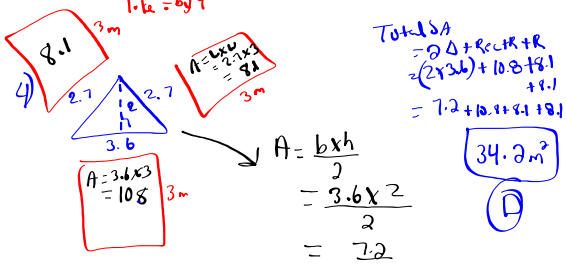
$n = 200$

Questions from booklet

1) D : C
3 : 7
how many total animals 3+7=10
part : whole
: 10
(A)

2) B : G
7 : 5
x3 x3
21 : 15
(C)
add Total
12
36
x3

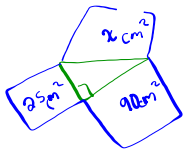
3) $15 + $25 = $40
Reduced by 25 %
25% of 40 = $10 saved
like ÷ by 4

4)


$A = \frac{bxh}{2}$
$= \frac{3.6 \times 2}{2}$
$= \frac{7.2}{2}$
$= 3.6$

Total SA
= 2Δ + Rect + R
= (2x3.6) + 10.8 + 8.1 + 8.1
= 7.2 + 10.8 + 8.1 + 8.1
34.2 m²
(D)

5) 0.5% of 800 000
1% of 800 000 = 8000
like ÷ by 100
÷2 ÷2
0.5% of 800 000 = 4000

7)


$c^2 = a^2 + b^2$
sum of areas of squares
$= 90 + 25$
$= 115\ cm^2$

8) 4 groups of ●●●
-3
(+4) x (-3)
(D)

9)


$a^2 = c^2 - b^2$
$= 20^2 - 16^2$
$= 400 - 256$
$a^2 = 144$
$a = \sqrt{144}$
$a = 12$
(B)

10) Bedmas
(-6) + (-14) ÷ (+2)
(-6) + (-7)
-13

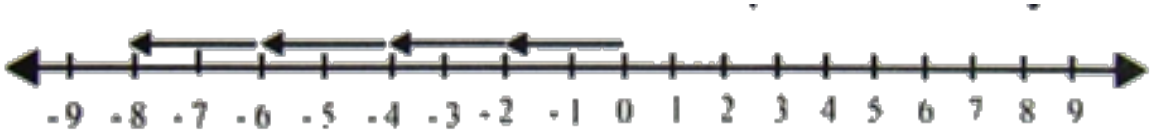
b) (+3) x [(+12) ÷ (+3)]
(+3) x (+4)
(+12)

c) (+2) + [(-2) x (+2)] + (-10)
(+2) + (-4) + (-10)
(-2) + (-10)
(-12)

d) (-7) x (+2) - (-4)
-14 - (-4)
(-14) + (+4)
(-10)
(I)

Write the number sentence that is represented by the number line below.

4 arrows of size (-2)



$(+4) \times (-2) = -8$

Write a number sentence for each of the following problems and use a diagram to model them.

1. Michelle withdrew $25 from her bank account each week for 16 weeks. How much money did she withdraw in total?

2. Mike and his four friends together owe $12. They agree to share the debt equally. What is each person's share of the debt?

1) $(-25) \times 16 = -400$ withdraw $400 in total

double: -50×8 half

2) 5 friend in total

$(-12) \div (5) = -2.40$

Each pay $2.40

Multiplying and Dividing Integers Rules

same

$(+) \times (+) = +$

$(-) \times (-) = +$

different

$(-) \times (+) = -$

$(+) \times (-) = -$

BEDMAS

$(+5) + (-3) = +2$

$(-7) + (-4) = -11$

Ex1) $(+2) + (-3) \times (-7)$

$(+2) + (+21)$

$(+23)$

Solve:

(-2) x (6) x (-7)

(-12) x (-7)

= (+84)

Solve:

$-350 \div -70$

$= (+5)$

Solve:

$$\frac{-4 + 10 \div -2}{12 - 3}$$

Top $(-4) + (10) \div (-2)$

$(-4) + (-5)$

-9

Bottom $= 12 - 3$

$= (+9)$

$\frac{\text{Top}}{\text{Bott}} = \frac{(-9)}{+9}$

$= (-1)$

The sum of two integers -2.

The product of the same two integers is -24.

What are the two integers? Explain your reasoning.

$(x) + (y) = -2$ ← Bigger number had to be (-)

$(x)(y) = (-24)$

\+ −

-6, +4 ✓

-8, +3

+1, -24

+2, -12

-6, +4 are the two integers

Integer Review

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