Directions

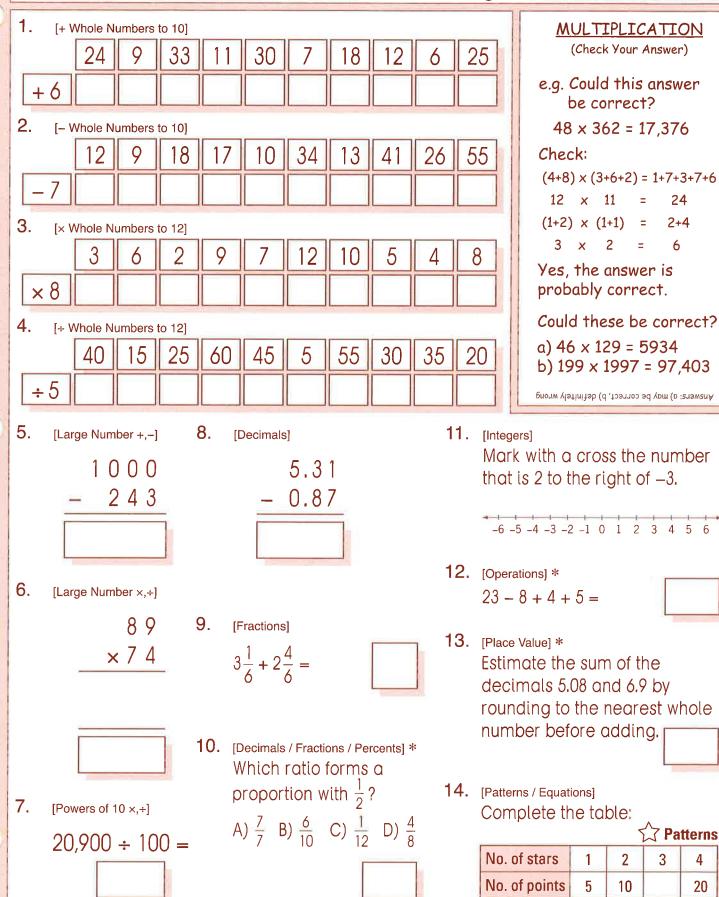
- Complete one Math's Mate sheet per week. Completing all of them at the start of the summer or leaving them all for the end of the summer will defeat the purpose of this assignment.
- After you complete each sheet, use the answer key to check your work. Circle any problems that you do not understand, and be prepared to ask questions about them in the fall.
- Feel free to use scratch paper to work out any of the problems. Please attach that scrap paper to the sheet you're working on once you're completed it.
- This work should be completed as independently as possible. It's much more important that your teacher sees what you can do on your own than that you get every problem right.



Name:

Due Date: / / / / /

Parent's Signature:



page 57

(10)(11)(12)(13)(14

6)(7)(8)(9)

5

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Patterns

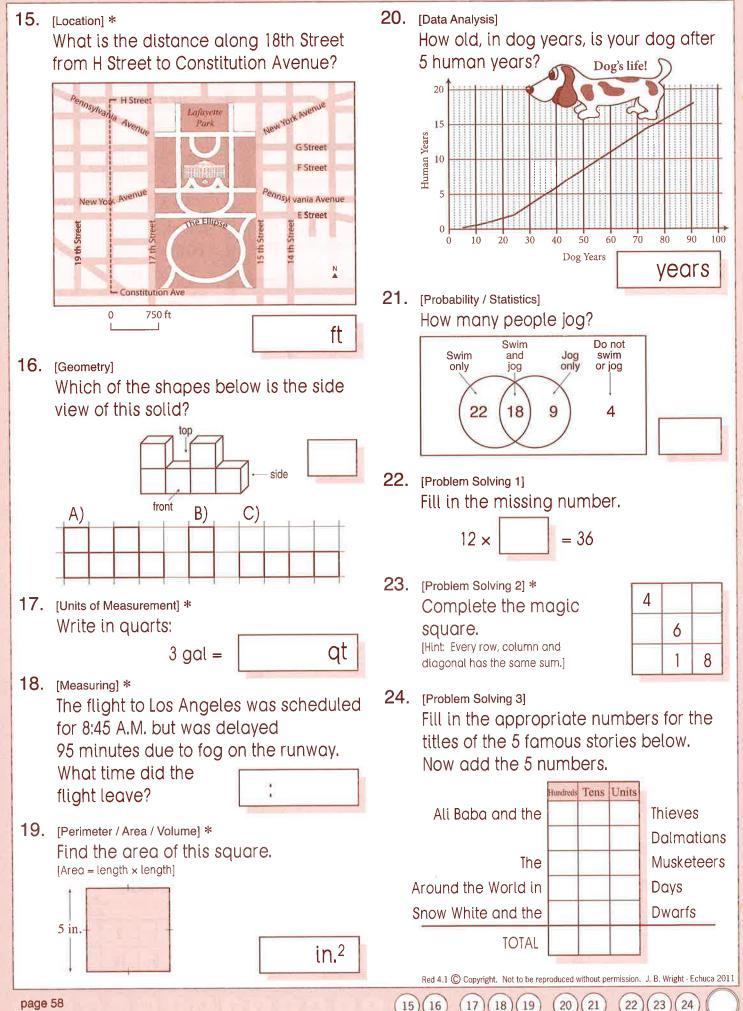
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20

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24

2+4



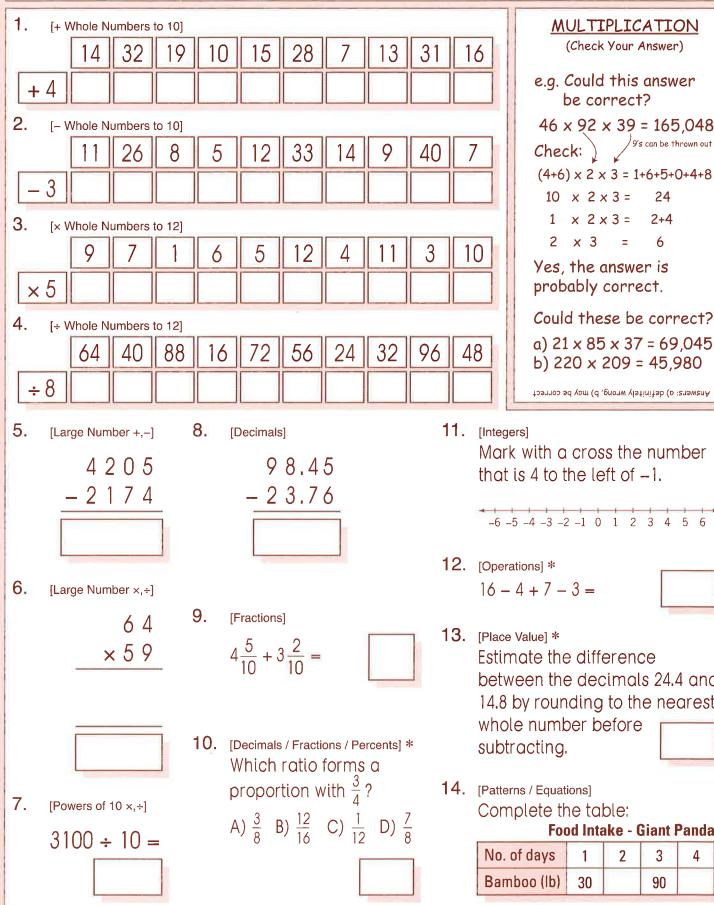
MATH'S MATE

Term 4 - Sheet 2



Parent's Signature:

Name:



1

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5)

6 (7)

9's can be thrown out

24

2+4

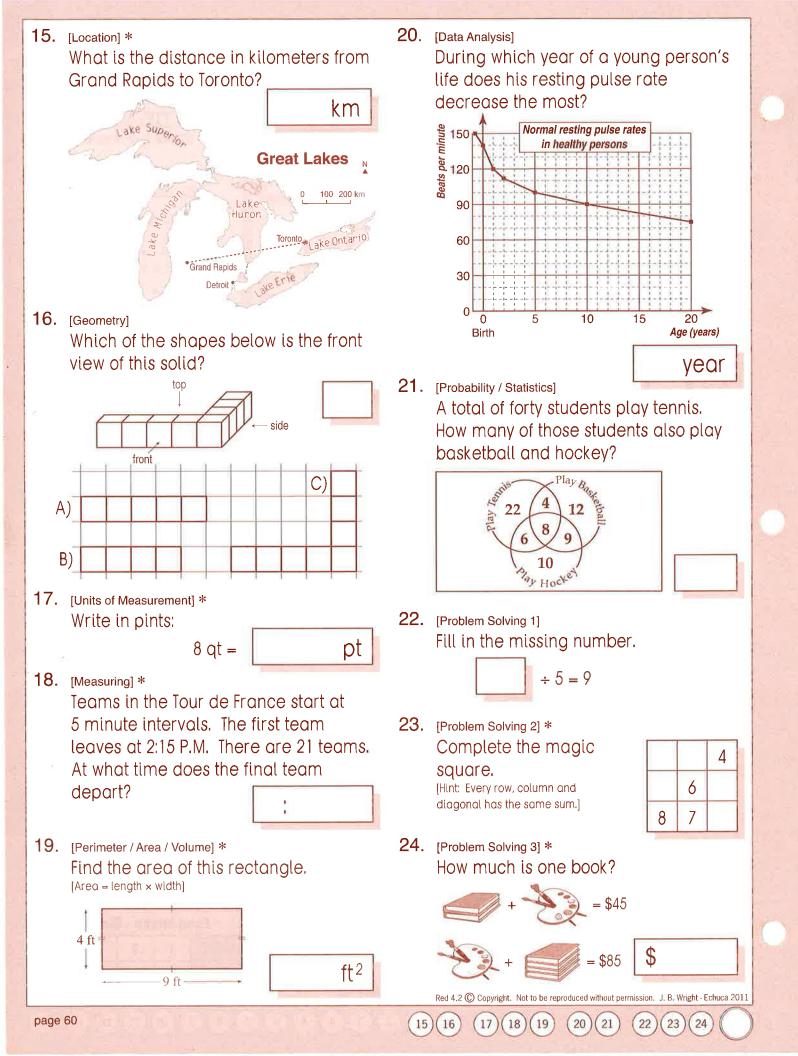
6

Estimate the difference between the decimals 24.4 and 14.8 by rounding to the nearest whole number before

Complete the table: Food Intoko Giant Panda

Food Intake - Glant Fand												
No. of days	1	2	3	4								
Bamboo (lb)	30		90									

(8)(9)(10)(11)(12)(13)



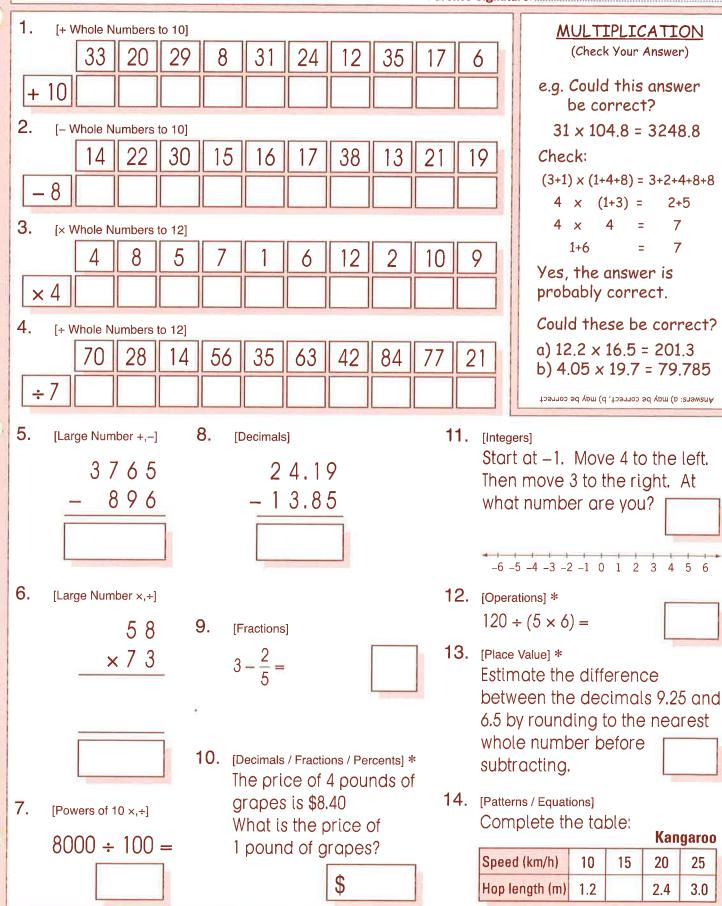


Name:

(7)(8)(9)(10)(11)(12)(13)

14

Parent's Signature:



1

2

3

4

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6)

20. [Data Analysis] 15. [Location] * How much paint would you need to How far is it from the Santos Dumont paint 1400 square feet of wall area? Airport to the International Airport in Brazil? Paint a room? 💦 International Airport 2400 North 2000 Atlantic Ocean € 1600 area (sq 800 Santos Dumont Airport 400 **RIO DE JANEIRO** 0 5 paint (gallons) Tijuca Forest gal Copacabana 21. [Probability / Statistics] Ipanema Twenty families were surveyed. How 4 mi 2 mi many have boys only? 16. [Geometry] Both Girls boys and Boys No Draw the top view of this solid. children only only girls top 7 8 ? 0 side 22. [Problem Solving 1] Fill in the missing number. front 17. [Units of Measurement] * = 56 8 × Write in liters: 23. [Problem Solving 2] * 9000 mL =Complete the magic square. 18. [Measuring] * [Hint: Every row, column and 12 The Sydney to Hobart Yacht Race starts 4 diagonal has the same sum.] at 1:10 P.M. Eighty minutes before this, 9 other boats are excluded from the area. 14 At what time must they be gone? 24. [Problem Solving 3] * A bookshop sold 200 books in its first 19. [Perimeter / Area / Volume] * year of business. Since then sales have Find the area of this door. doubled every year. What was the 80 cm bookshop's profit in the sixth year given the yearly profit formula below? Yearly profit = books sold \times \$2 - \$1000 200 cm S cm² Red 4.3 (C) Copyright. Not to be reproduced without permission. J. B. Wright - Echuca 2011

15)(16

17

18

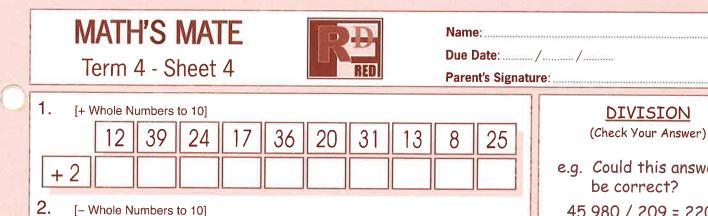
19

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23)(24



10 35

[× Whole Numbers to 12]

[+ Whole Numbers to 12]

9

11

[Large Number +,-]

4382

-3769

[Large Number ×,+]

[Powers of 10 ×,+]

 $50,000 \div 100 =$

77

×26

10

- 4

× 10

÷1

3.

4.

5.

6.

24

4

6

e.g. Could this answer be correct? 45,980 / 209 = 220 13 32 31 27 9 28 6 Check:) 9's can be thrown out (4+5+8)/2 = 2+2(1+7) / 2 = 48 / 2 = 4 5 12 3 8 Yes, the answer is 6 probably correct. Could these be correct? a) 19,646 / 517 = 38 3 2 10 8 5 12 9 b) 3525 / 47 = 65 Answers: a) may be correct, b) definitely wrong 8. 11. [Integers] [Decimals] Start at 4. Move 2 to the right. 57.08 Then move 9 to the left. At - 45.96 what number are you? -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 12. [Operations] * $(19 - 12) \times 5 =$ 9. [Fractions] $2 - \frac{2}{2} =$ 13. [Place Value] * Estimate the sum of the decimals 10.38 and 4.71 by

- 10. [Decimals / Fractions / Percents] * Which is cheaper per apple?
 - A) \$1.80 for 4 applesB) \$2.10 for 5 apples

2

3

4

5

1

Complete the table:

14. [Patterns / Equations]

(7)

6

	_			clubic
Period	1	2	3	4
Starting time	8:25	9:10		10:40

(8)(9)(10)(11)(12)(13)

Timotahlo

(14

rounding to the nearest whole

number before adding.

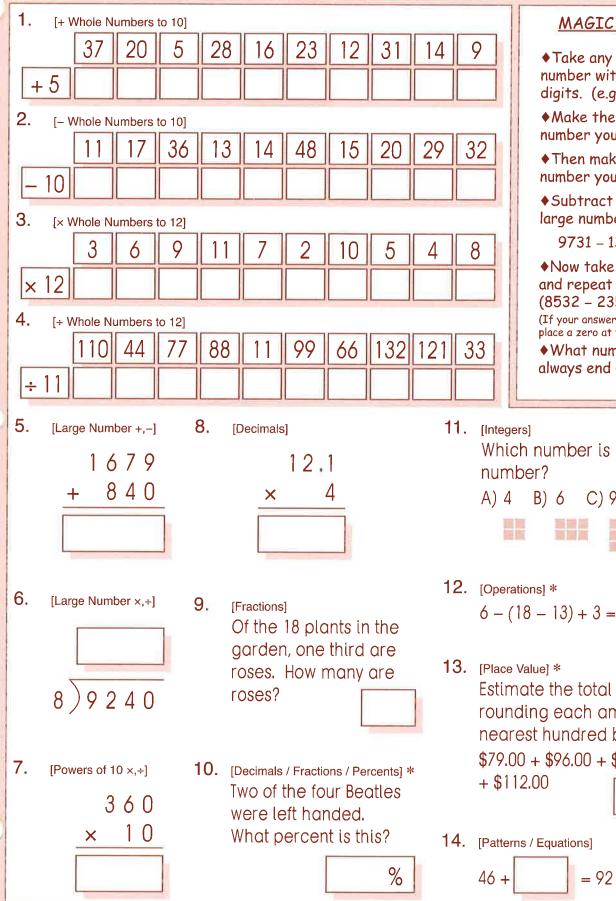
7.

20. [Data Analysis] 15. [Location] * At what temperature is the solubility of What is the distance in miles from the sodium chloride and potassium Chevenne camp to Black Kettle's camp? chlorate the same? Washita Battlefield Solubility in g/100 cm³ water 55 ARAPAHO **OKLAHOMA** odium nitrat CAMP 1 2 Kilometers 0 7th Cavalry 2 Miles 1 KIOWA Black Kettle & CAMP sodium chloride Medicine Woman later killed Elliott potassium chlorate 0 CHEYENNE Warriers 60 100 0 20 40 80 Etliot & Mvers BLACK CAMP Temperature (°C) Troops killed **⊀KETTLE'S** Thompson CAMP °C North (\uparrow) 21. [Probability / Statistics] * How many of the 20 families surveyed mi have both electrical and wood heating? 16. [Geometry] Draw the side view of this solid. 5 top 7 4 Wood Neither Electrical Both side types of heating type of heating heating heating 22. [Problem Solving 1] front Fill in the missing number. 17. [Units of Measurement] * 36 ÷ = 4 Write in milliliters: mL 6L =23. [Problem Solving 2] * Complete the magic 12 16 18. [Measuring] * square. 15 The exam started at 11:20 A.M. After [Hint: Every row, column and 1 hour and 20 minutes Billy finished diagonal has the same sum.] 14 and left the room. He left 15 minutes 24. [Problem Solving 3] Fill in the crosswords about time to before me. At what time did I leave reveal the name for a long interval of the exam room? time in the vertical box. Hangs on a wall 19. [Perimeter / Area / Volume] * Find the area of this baseball infield. 7 days 3600 every hour 90 ft On your wrist 60 seconds 60 minutes 1440 minutes ft² 90 ft Red 4.4 C Copyright. Not to be reproduced without permission. J. B. Wright - Echuca 2011 23 24 15 16 (17)(18)(19 20 21 22



Name

Parent's Signature:



MAGIC NUMBERS

♦ Take any 4-digit number with 4 different digits. (e.g. 3, 1, 7 & 9)

Make the largest number you can. (9731)

Then make the smallest number you can. (1379)

Subtract it from your large number.

9731 - 1379 = 8352

Now take this answer and repeat the process. (8532 - 2358)(If your answer has only 3 digits,

place a zero at the front.)

What number will you always end up with?

- Which number is not a square
 - C) 9

Estimate the total cost by rounding each amount to the nearest hundred before addina: \$79.00 + \$96.00 + \$309.00 +

\$

(11)

(12)

(13)

14

8

9

(10)

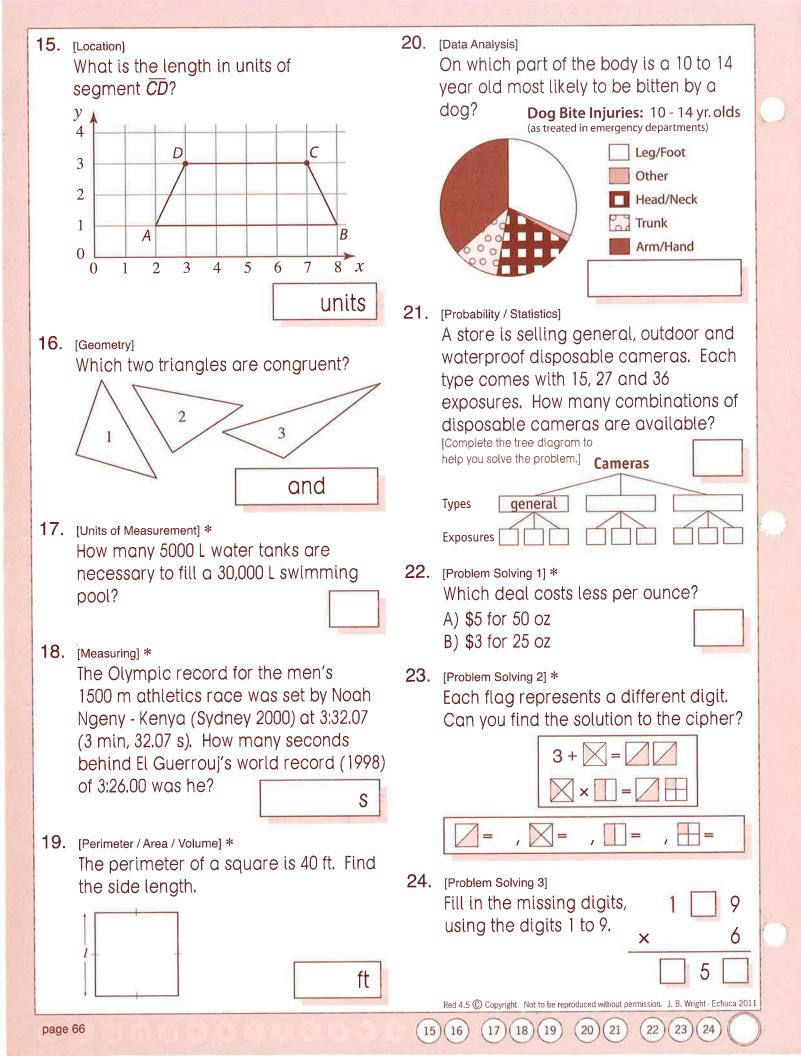
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6 7

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Name:

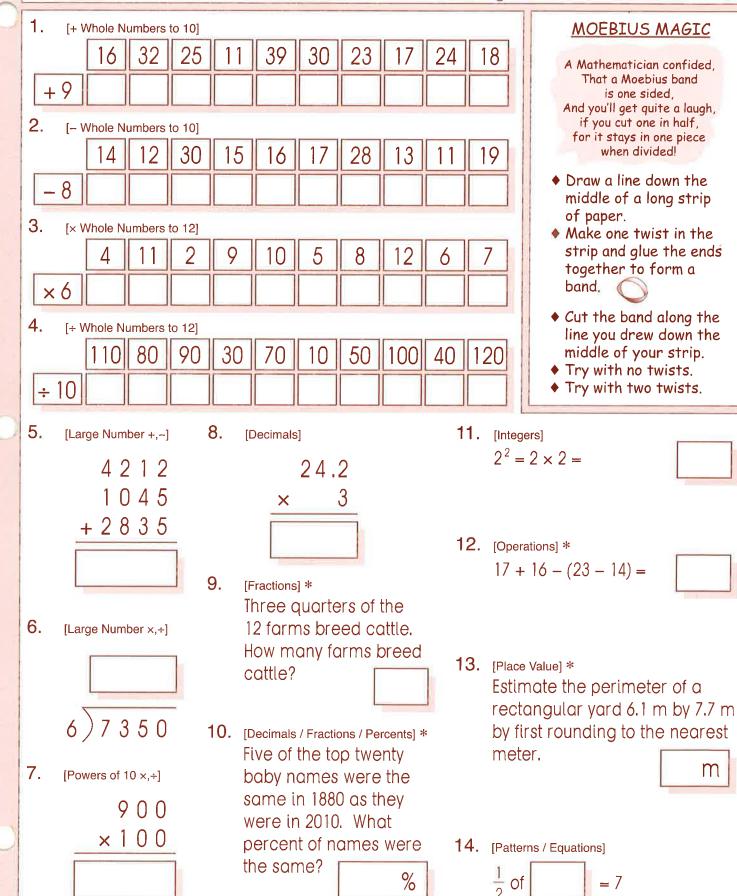
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14

(12)(13)

Parent's Signature:



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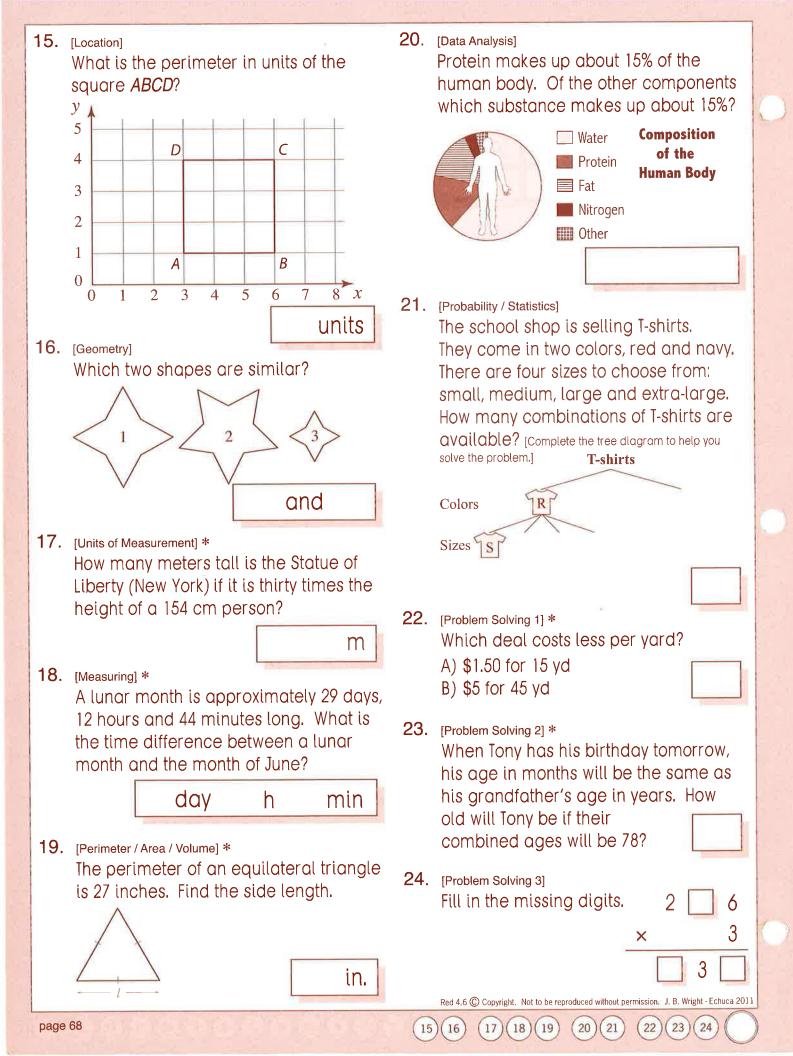
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8)

(9)(10)(11)

page 67

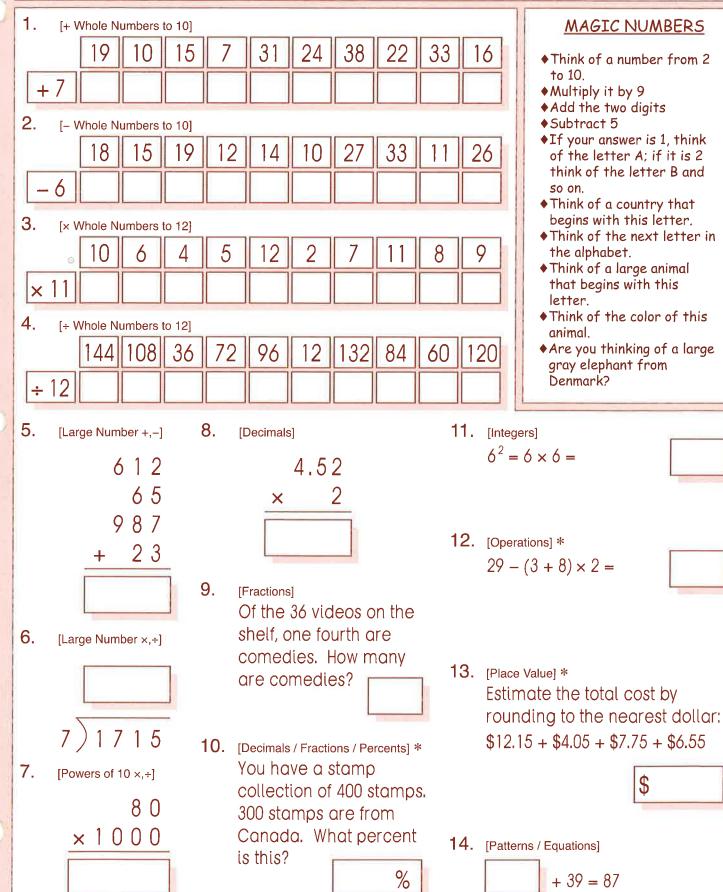




Name:

S

Parent's Signature:



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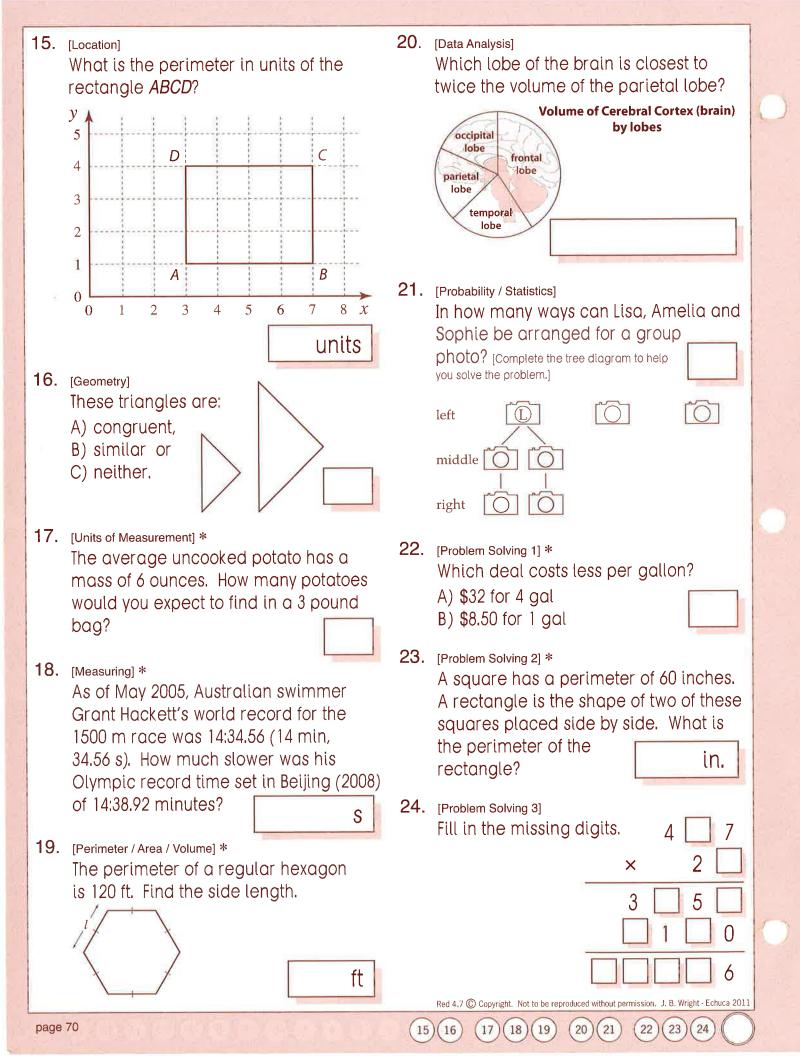
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(10)(11)

(12)(13)

14

page 69



Name:

mi

(14)

(10)(11)(12)(13)

Parent's Signature:

6)

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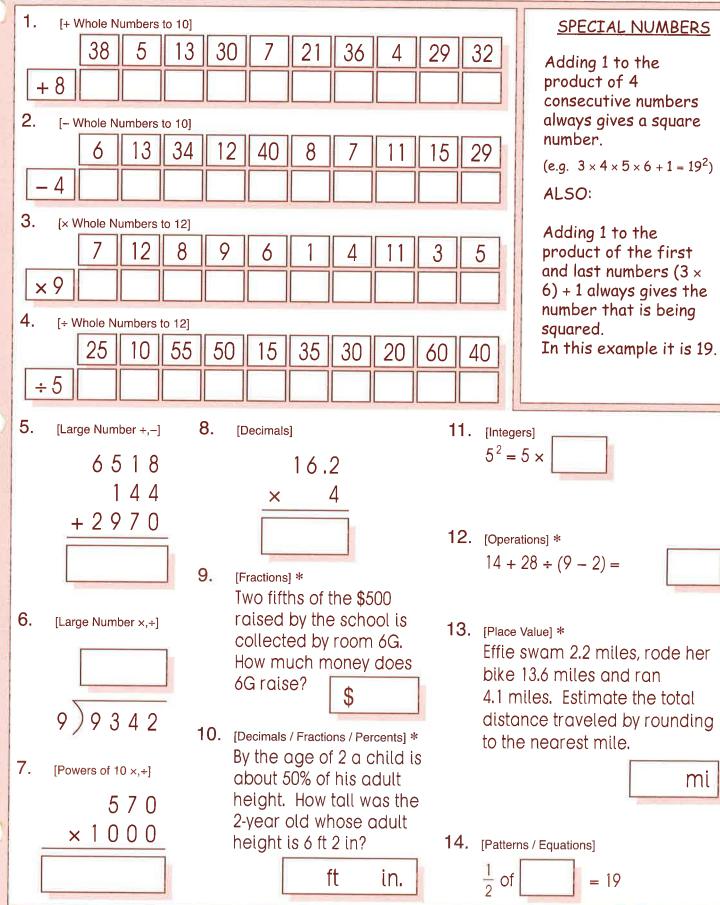
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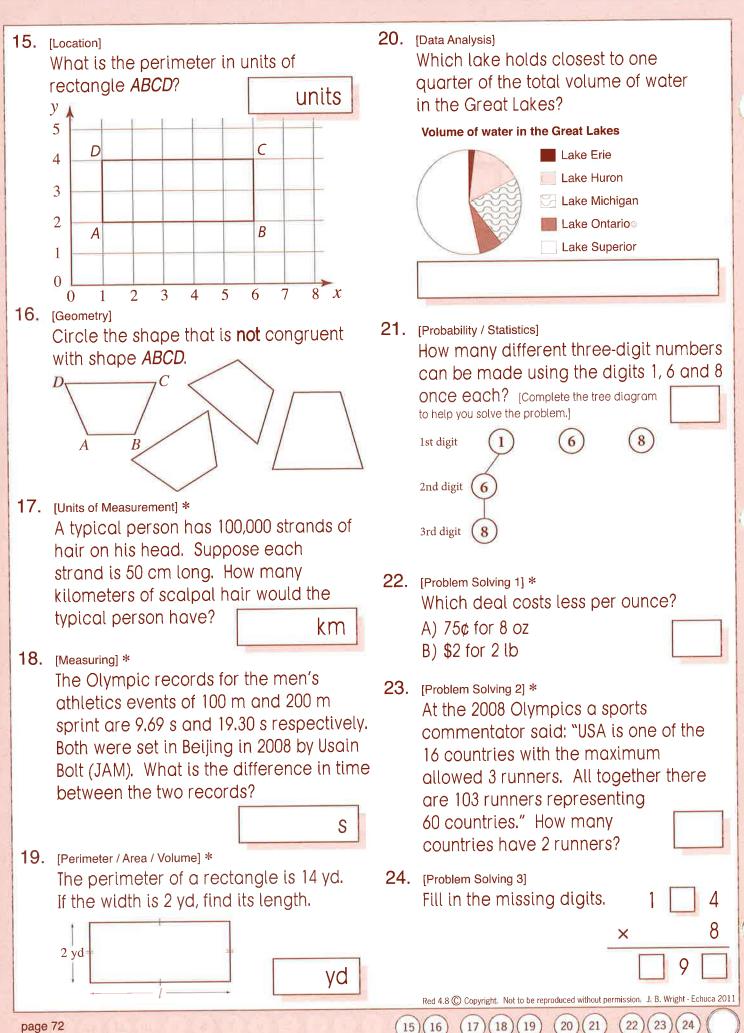
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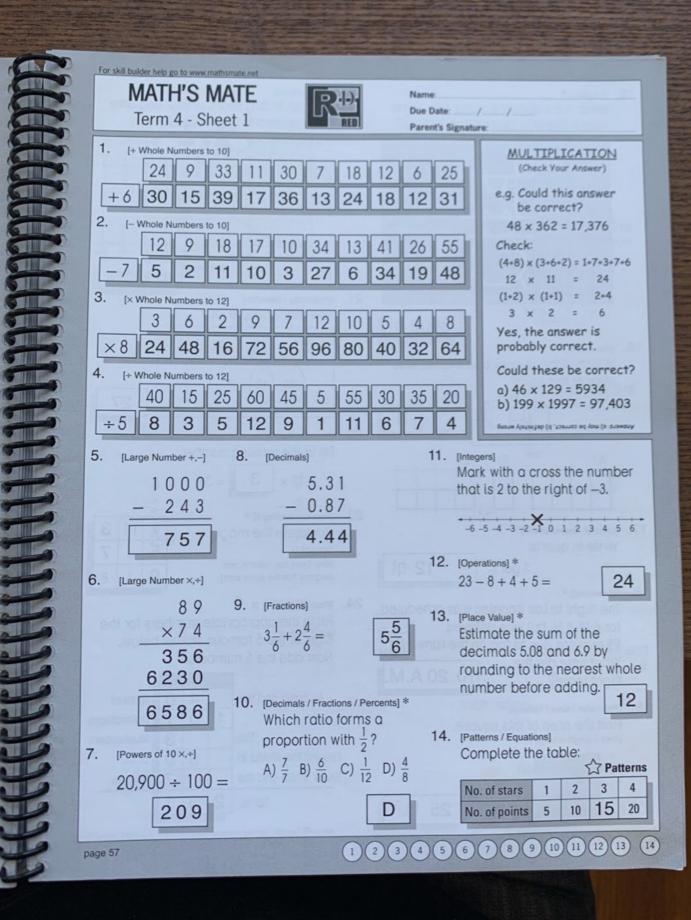
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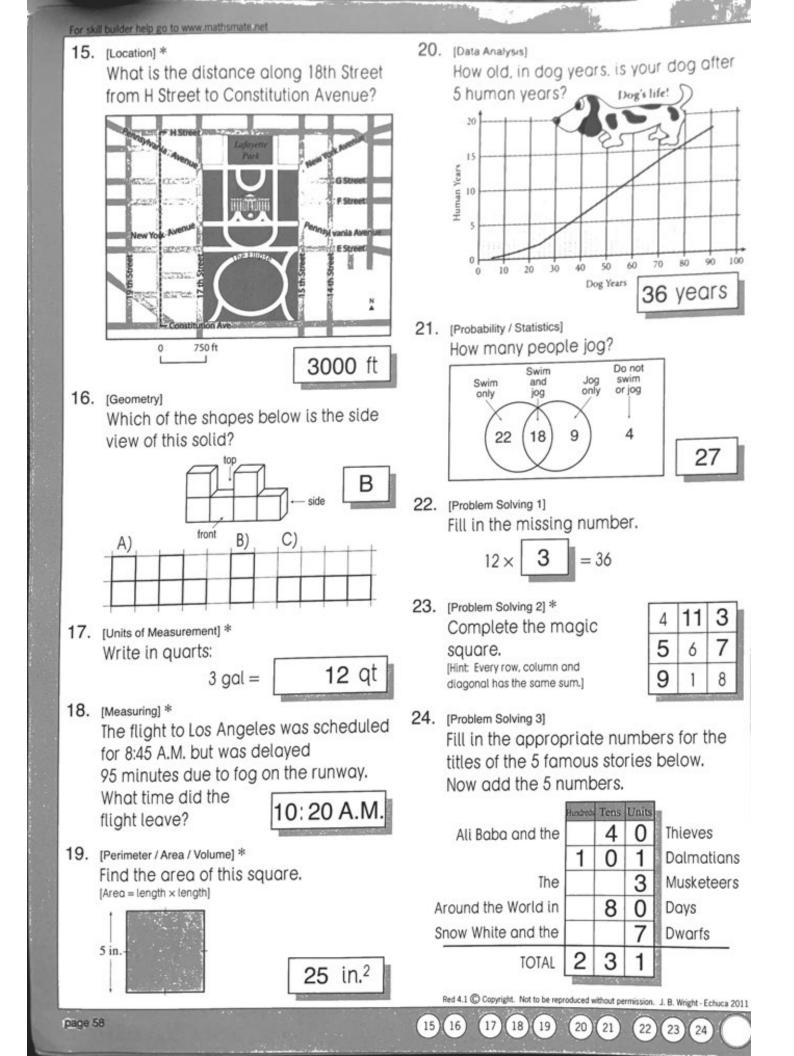
(7)(8)(9)

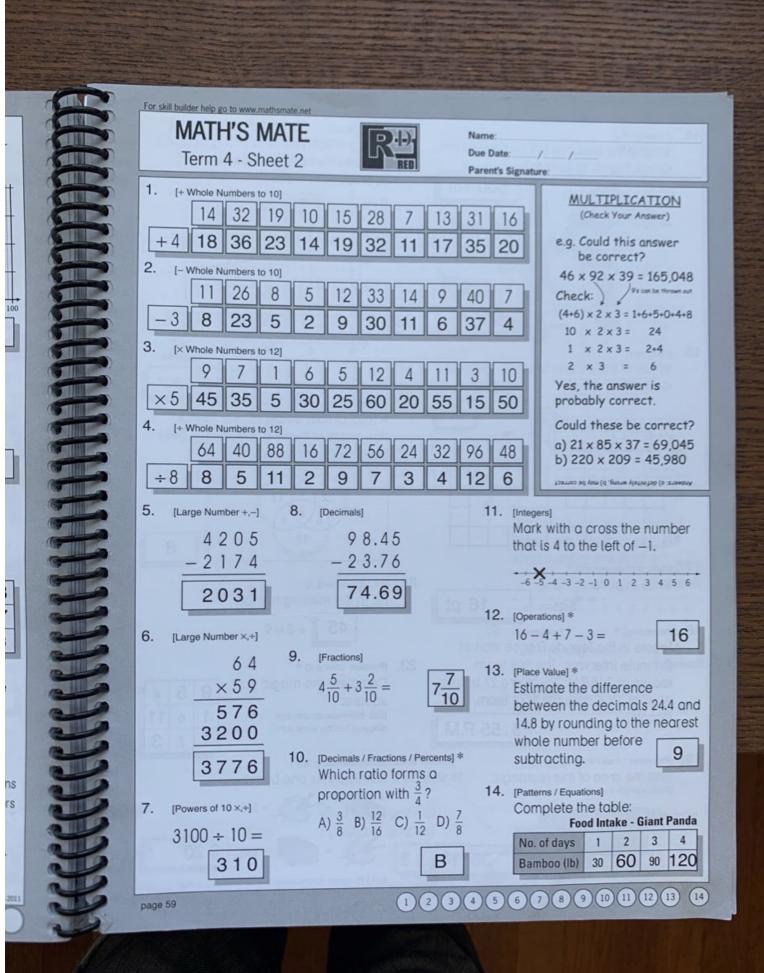


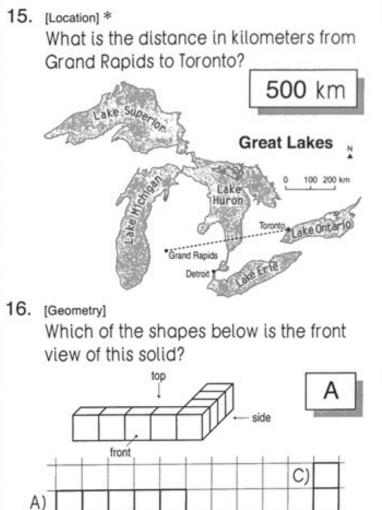
page 71











- 17. [Units of Measurement] * Write in pints:

8 qt = 16 pt

18. [Measuring] *

B)

Teams in the Tour de France start at 5 minute intervals. The first team leaves at 2:15 P.M. There are 21 teams. At what time does the final team depart?

3:55 P.M.

36 ft²

15

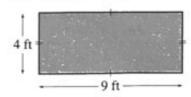
16

17

18

19

19. [Perimeter / Area / Volume] * Find the area of this rectangle. [Area = length × width]

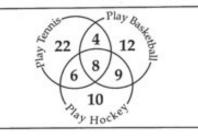


20. [Data Analysis]

During which year of a young person's life does his resting pulse rate decrease the most?

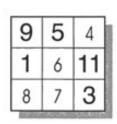


21. [Probability / Statistics] A total of forty students play tennis. How many of those students also play basketball and hockey?



22. [Problem Solving 1] Fill in the missing number.

23. [Problem Solving 2] * Complete the magic square. [Hint: Every row, column and diagonal has the same sum.]



8

24. [Problem Solving 3] * How much is one book?





20

21

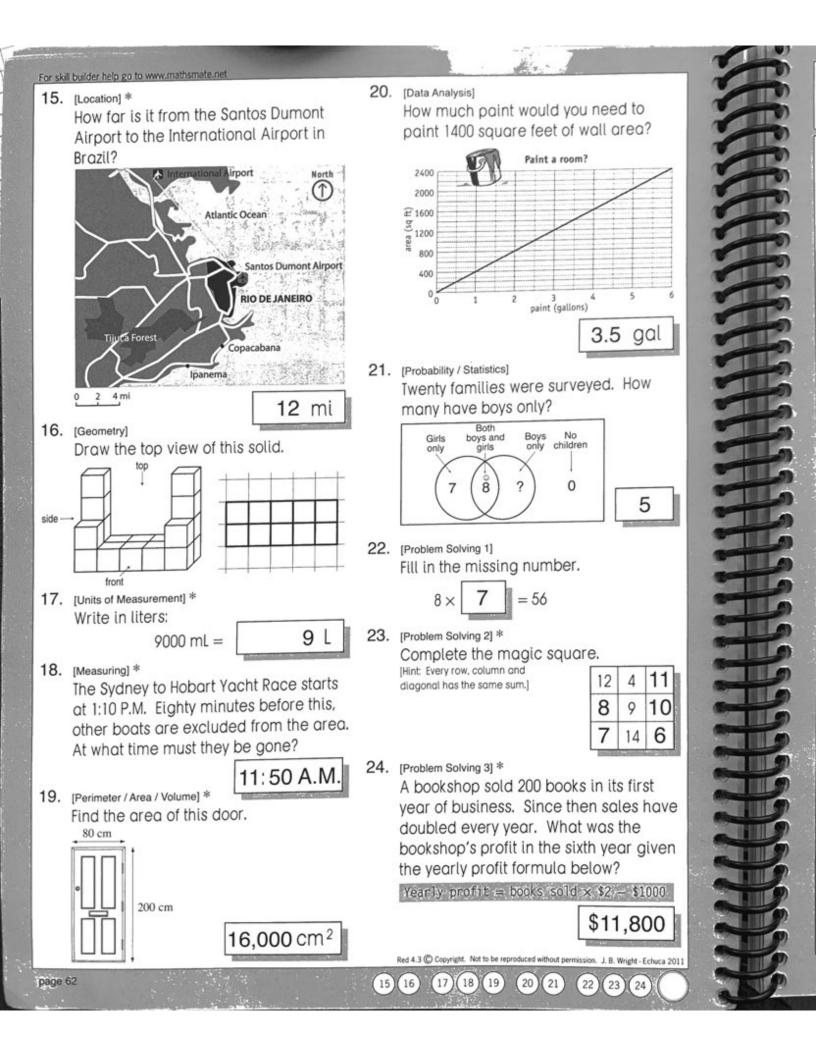
22

23

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I	1		
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For s	kill build	ler help g	o to www.	mathsma	te.net							
				MAT heet			R	Ð		Nam Due I		1_1_
-				-	3	-		REDI	_	Pare	nt's Signa	ture:
1.	[+ V	Vhole N 33				0.1					u	MULTIPLICATION
	10		20	29	8	31	24	12	35	17	6	(Check Your Answer)
	10	43	30	39	18	41	34	22	45	27	16	e.g. Could this answer be correct?
2.	[- V	Vhole N	umbers		15	1/	17					31 × 104.8 = 3248.8
	- 8	6		30	15	16		38	13	21	19	Check: (3+1) × (1+4+8) = 3+2+4+8+8
	- 1		14	22	1	8	9	30	5	13	11	4 x (1+3) = 2+5
3.	[× V	Vhole N	mbers		7			10		10		$4 \times 4 = 7$ 1+6 = 7
	4	4	。 32	5			6	12	2	10	9	Yes, the answer is
				20	28	4	24	48	8	40	36	probably correct.
4.	[÷ V	70	28	12]	56	35	63	12	81	77	21	Could these be correct? a) 12.2 x 16.5 = 201.3
	.7	10	20	2	8	5	00 0	42	84	11	21	b) 4.05 x 19.7 = 79.785
	/	10	-	4			9	0	12	11	3	Answers: a) may be correct, b) may be correct
5.	[Lan	ge Num		8	8. (C	Decimals		22		1	1. (Inte Sta	_{gers]} rt at –1. Move 4 to the left.
			65			_	4.1				The	n move 3 to the right. At
	_			1		_		=			wne	at number are you? -2
	Ļ	28	69			1	0.3	4			-6	-5 -4 -3 -2 -1 0 1 2 3 4 5 6
6.	[Larg	ae Numi	per ×,+]							1		rations] *
			58	9). (F	ractions]					$(5 \times 6) = 4$
16		×	73		3	_2_=			23	1		ve Value] *
		1	74		- 1 - 5-	5			25			mate the difference ween the decimals 9.25 and
		40	60									by rounding to the nearest
		42	34	1					cents] *			ble number before 2
-		and the second second					ce of 4 is \$8.		nds of			erns / Equations]
7.		ers of 1			Ŵ	hat is	the p	orice o			Cor	mplete the toble: Kangaroo
3	80	• 00		=	1	pound	d of g				and the second	ed (km/h) 10 15 20 25
			80					\$ 2.	10	1.01	Нор	length (m) 1.2 1.8 2.4 3.0
		-										



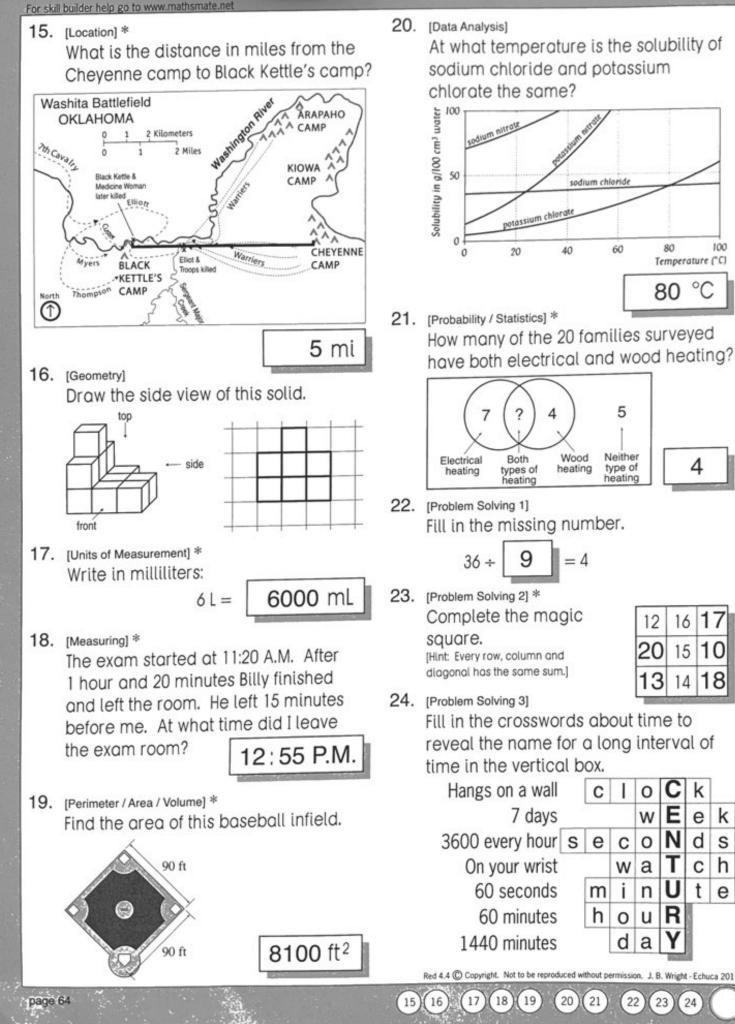
For skill builder help go to www.mathsmate.net MATH'S MATE Name: Due Date: 1 1 Term 4 - Sheet 4 Parent's Signature: 1. [+ Whole Numbers to 10] DIVISION (Check Your Answer) 12 39 24 17 36 20 31 25 13 8 e.g. Could this answer +214 41 26 19 38 22 33 15 10 27 be correct? 2. [- Whole Numbers to 10] 45,980 / 209 = 220 10 35 | 24 6 27 9 13 32 31 28 Check:) /95 can (4+5+8) / 2 = 2+2 - 4 31 20 2 6 23 5 9 28 27 24 (1+7)/2 = 48/2 = 4 3. [× Whole Numbers to 12] Yes, the answer is 9 10 4 5 12 3 8 6 probably correct. 50 120 30 60 × 10 90 100 40 10 80 110 Could these be correct? 4. [+ Whole Numbers to 12] a) 19,646 / 517 = 38 3 2 10 9 8 5 12 7 6 b) 3525 / 47 = 65 11 3 2 8 5 10 9 12 11 7 6 $\div 1$ wers: a) may be correct, b) definitely wi 11. [Integers] 5. 8. [Decimals] [Large Number +,-] Start at 4. Move 2 to the right. 57.08 4382 Then move 9 to the left. At 45.96 3769 what number are you? 12 11.12 613 4 5 6 -10123 -3 6. [Large Number ×,+] 12. [Operations] * $(19 - 12) \times 5 =$ 35 9. [Fractions] 77 ×26 13 13. [Place Value] * Estimate the sum of the 462 decimals 10.38 and 4.71 by 1540 rounding to the nearest whole number before adding. 10. [Decimals / Fractions / Percents] * ave 2002 15 Which is cheaper per 14. [Patterns / Equations] apple? ven 7. [Powers of 10 ×,+] Complete the table: A) \$1.80 for 4 apples Timetable B) \$2.10 for 5 apples $50,000 \div 100 =$ 4 3 Period 1 2 Starting time 8:25 9:10 9:55 10:40 B 500 a 201 (14) page 63

6

11

10

6



Temperature (°C)

Fill in the crosswords about time to reveal the name for a long interval of time in the vertical box.

sodium chloride

Neither

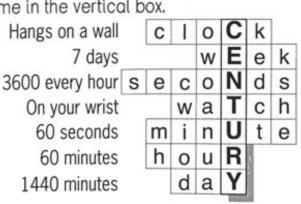
type of

heating

Wood

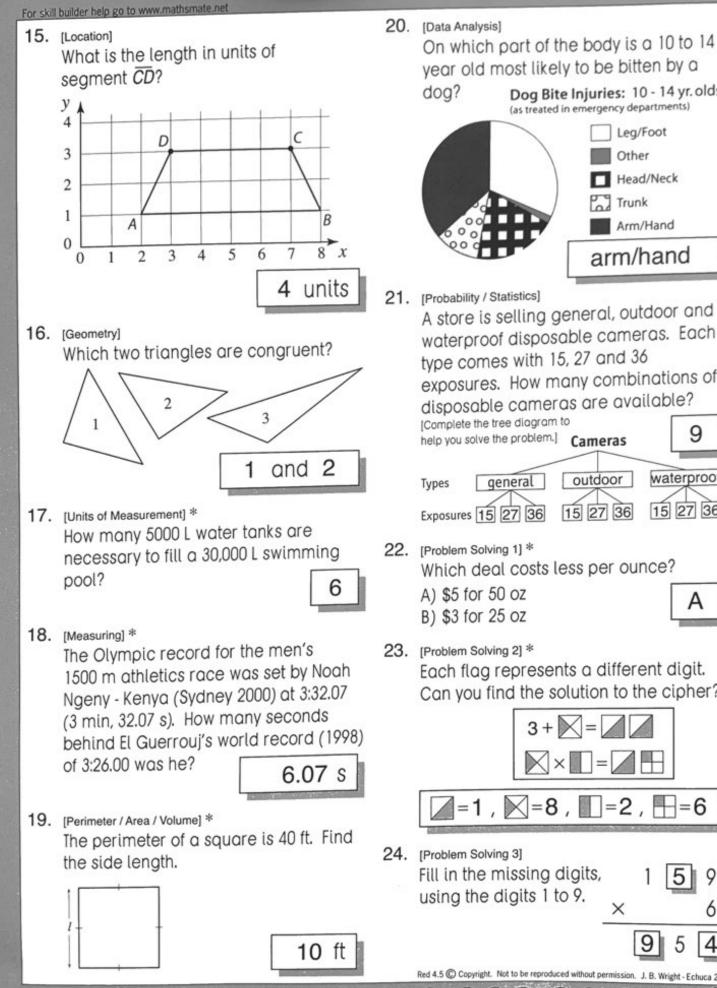
heating

= 4



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For skill builder					-							
1000	ATH' rm 4					R	·D· RED		Name Due D Paren		_/	_/
1. [+ Wi	hole Num	bers to	10]									MAGIC NUMBERS
	37 2	20	5	28	16	23	12	31	14	9		Take any 4-digit
	42 2	25	10	33	21	28	17	36	19	14	0	number with 4 different digits. (e.g. 3, 1, 7 & 9)
2. [- wi	hole Num			10	1.1	10						Make the largest number you can. (9731)
10			36	13	14	48	15	20	29	32		Then make the smalles number you can. (1379)
- 10			26	3	4	38	5	10	19	22		Subtract it from your
3. _{[× wi}	hole Num	6	12]	11	7	2	10	5		8		arge number. 9731 – 1379 = 8352
× 12		72 1	-	132	84	24	120	60	48	96	0	Now take this answer and repeat the process.
	hole Num										i i	8532 - 2358) If your answer has only 3 digits, lace a zero at the front.)
6	110	44	77	88	11	99	66	132	121	33		What number will you always end up with?
÷11	10	4	7	8	1	9	6	12	11	3		aways end up write?
5. [Larg		er +,-] 7 9 4 0	8	3. (C		12.	1		1		mber) 6 C) 9
	25	19				48.	4		1	2. (Op	erations	B
6. [Larg	ge Numbe	er ×,÷]	9		ractions		ants ir	h the				- 13) + 3 = 4
	11	55	1.	g	arde	n, one	e third	are	1	3. [Pla	co Valu	Section 1 Contract
70)92	10	ix 5		oses. oses?		many [10.	Es	timate	e the total cost by
0,	192	40					in the second se	6	1	ro	arest	g each amount to the hundred before add
7. [Pow	vers of 10	0 ×,+]	-				tions / Pe		*		9.00 +	\$96.00 + \$309.00 +
1213		60					our Be			1.	<i>p</i> 112.0	\$ 600.0
8	×	10					nt is th		1	4. [Pa	tterns /	Equations]
101 3	36	00					!	50%	1	46	+ 4	= 92
	-					-	-		and the second second		0	8 9 10 11 12 13



Other Head/Neck Trunk Arm/Hand arm/hand 21. [Probability / Statistics] A store is selling general, outdoor and waterproof disposable cameras. Each type comes with 15, 27 and 36 exposures. How many combinations of disposable cameras are available? (Complete the tree diagram to 9 help you solve the problem.] Cameras outdoor waterproof general 15 27 36 15 27 36 Exposures 15 27 36

Dog Bite Injuries: 10 - 14 yr. olds

Leg/Foot

(as treated in emergency departments)

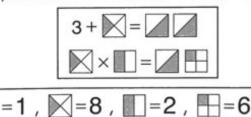
22. [Problem Solving 1] * Which deal costs less per ounce?

A)	\$5	for	50	OZ
				ΟZ

15 16 17

18 19

23. [Problem Solving 2] * Each flag represents a different digit. Can you find the solution to the cipher?



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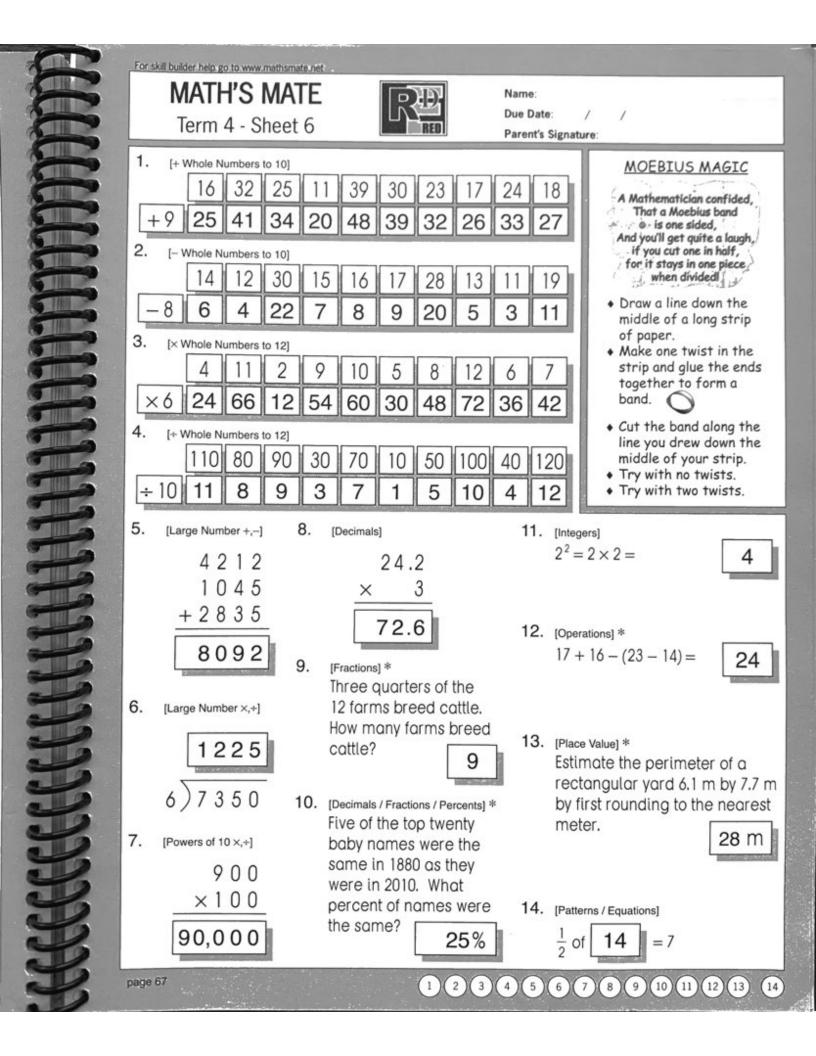
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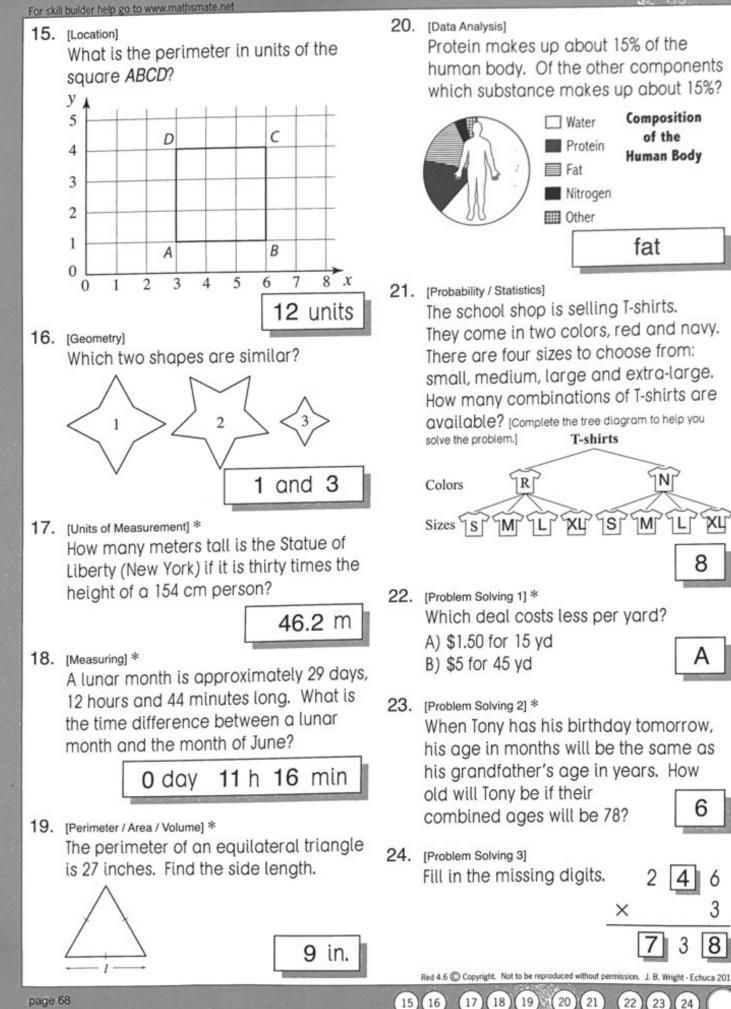
[Problem Solving 3] Fill in the missing digits, using the digits 1 to 9. X 9

20

21

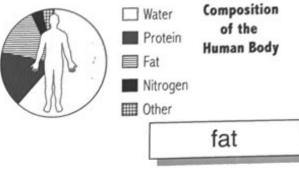
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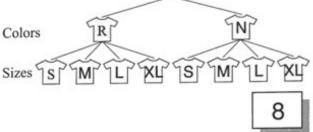
20. [Data Analysis]

Protein makes up about 15% of the human body. Of the other components which substance makes up about 15%?



21. [Probability / Statistics]

The school shop is selling T-shirts. They come in two colors, red and navy. There are four sizes to choose from: small, medium, large and extra-large. How many combinations of T-shirts are available? [Complete the tree diagram to help you solve the problem.] **T-shirts**



22. [Problem Solving 1] * Which deal costs less per yard? A) \$1.50 for 15 yd B) \$5 for 45 yd

23. [Problem Solving 2] * When Tony has his birthday tomorrow, his age in months will be the same as his grandfather's age in years. How

×

22

23

24

old will Tony be if their combined ages will be 78?

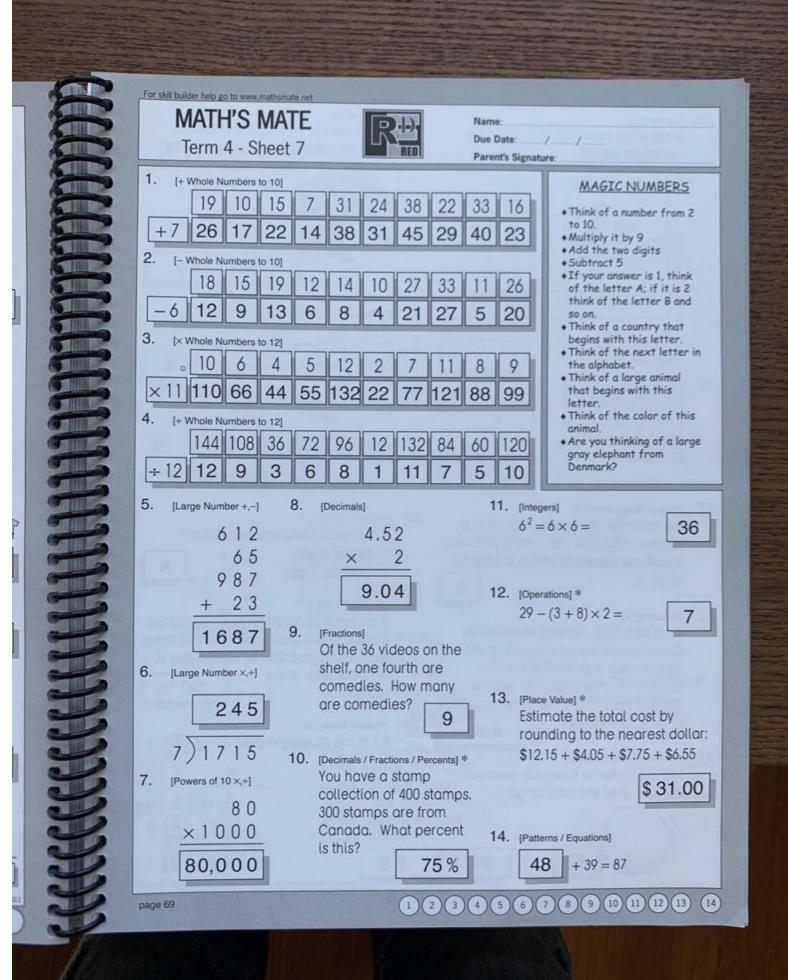
24. [Problem Solving 3] Fill in the missing digits.

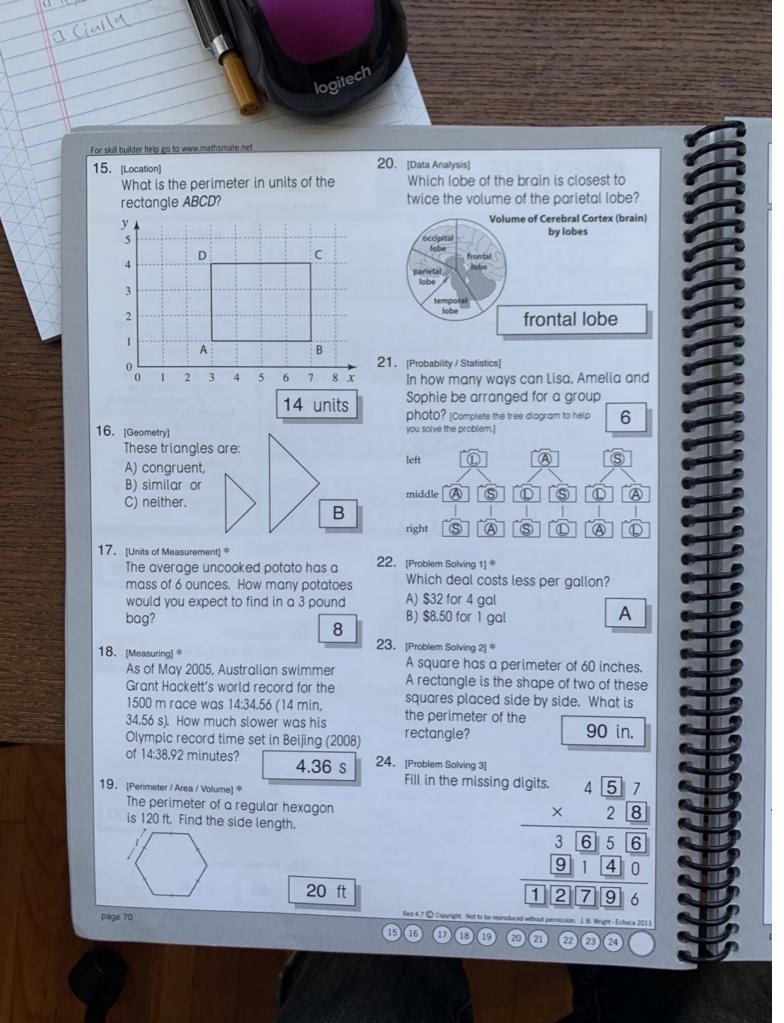
18

17

19

20





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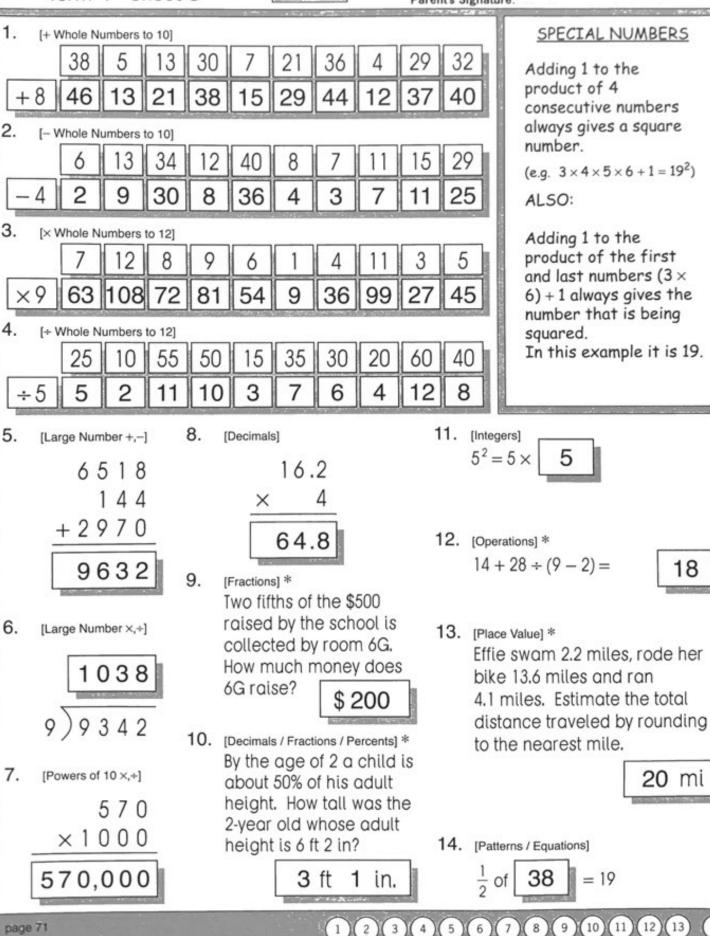
MATH'S MATE Term 4 - Sheet 8



Name:

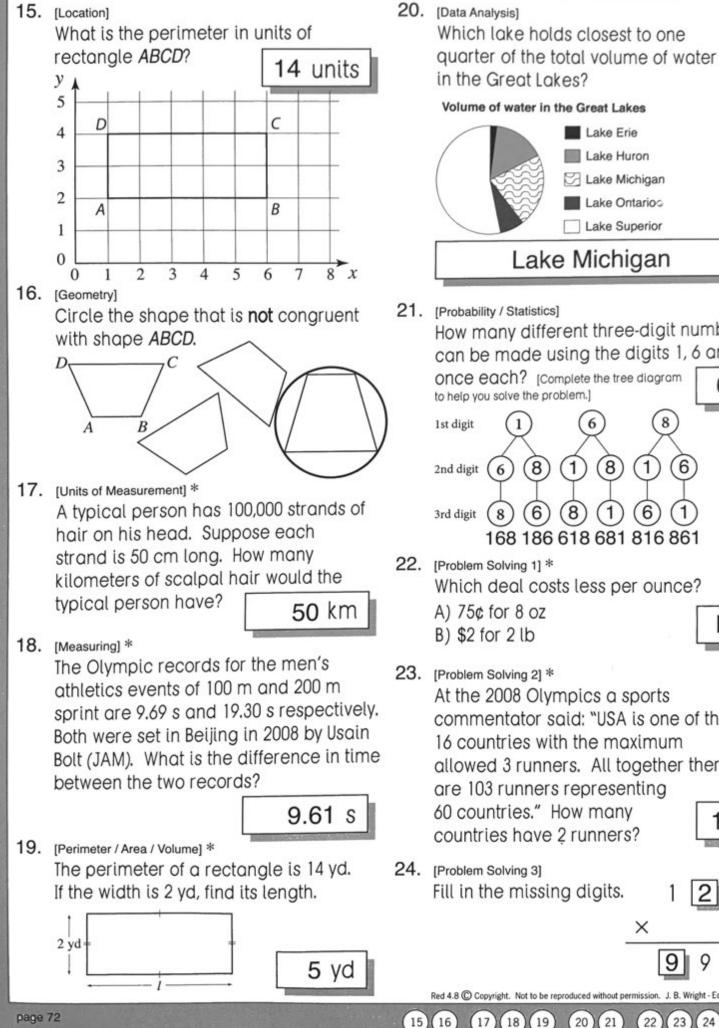
Due Date:

Parent's Signature:



14

(13)



Lake Ontarioo Lake Superior Lake Michigan 21. [Probability / Statistics] How many different three-digit numbers can be made using the digits 1, 6 and 8 Once each? [Complete the tree diagram to help you solve the problem.] 8 1 8 1 6 6 8 8 6 168 186 618 681 816 861 22. [Problem Solving 1] * Which deal costs less per ounce? A) 75¢ for 8 oz B) \$2 for 2 lb

Lake Erie Lake Huron

A Lake Michigan

23. [Problem Solving 2] * At the 2008 Olympics a sports commentator said: "USA is one of the 16 countries with the maximum allowed 3 runners. All together there are 103 runners representing 60 countries." How many countries have 2 runners?

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24. [Problem Solving 3] Fill in the missing digits.

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