

KTS Pick 'n Mix 2018 Year 7 and 8



Maths Master (50 credits)

Multiplication

$2 \times 3 = 6$

$5 \times 5 = 25$

$10 \times 7 = 70$

$2 \times 8 = 16$

$5 \times 10 = 50$

$3 \times 7 = 21$

$5 \times 8 = 40$

$4 \times 7 = 28$

$8 \times 3 = 24$

$6 \times 4 = 24$

$4 \times 9 = 36$

$6 \times 5 = 30$

$9 \times 2 = 18$

$8 \times 8 = 64$

$3 \times 6 = 18$

$7 \times 8 = 56$

$6 \times 7 = 42$

$8 \times 9 = 72$

$9 \times 5 = 45$

$8 \times 6 = 48$

$13 \times 100 = 1300$

$20 \times 3 = 60$

$45 \times 2 = 90$

$15 \times 3 = 45$

$25 \times 5 = 125$

Division

$18 \div 2 = 9$

$15 \div 3 = 5$

$63 \div 9 = 7$

$40 \div 5 = 8$

$36 \div 6 = 6$

$72 \div 8 = 9$

$35 \div 7 = 5$

$64 \div 8 = 8$

$14 \div 2 = 7$

$30 \div 3 = 10$

$21 \div 3 = 7$

$36 \div 4 = 9$

$42 \div 6 = 7$

$28 \div 7 = 4$

$32 \div 8 = 4$

$27 \div 3 = 9$

$28 \div 4 = 7$

$48 \div 8 = 6$

$56 \div 7 = 8$

$24 \div 8 = 3$

$2500 \div 5 = 500$

$75 \div 3 = 25$

$48 \div 3 = 16$

$99 \div 3 = 33$

$88 \div 4 = 22$

Squares and Square Roots

$8^2 = 64$

$4^2 = 16$

$7^2 = 49$

$6^2 = 36$

$9^2 = 81$

$\sqrt{25} = 5$

$\sqrt{16} = 4$

$\sqrt{100} = 10$

$\sqrt{1} = 1$

$\sqrt{9} = 3$

Which decimal is the biggest, 0.738, 0.9, 0.87?

Which decimal is the smallest, 3.4, 3.71, 3.094?

Which number is the same as $\frac{3}{5}$? $\frac{5}{3}$, $\frac{12}{20}$, $1\frac{2}{5}$, $\frac{4}{6}$

Which fraction is the smallest, $\frac{3}{8}$, $\frac{4}{10}$, $\frac{1}{3}$?

Round the following decimal to the nearest tenth. 8.39 8.4

How many thousands are in all of 7 558 884?

Which fraction is the biggest, $\frac{2}{3}$, $\frac{7}{10}$, $\frac{3}{5}$?

Which is the smallest, $\frac{3}{4}$, 0.76, 80%?

How many hundredths are in all of 2.081? 208 or 208.1

What number is halfway between 7.3 and 7.4? 7.35

What is the highest common factor of 24 and 32? 8

What is the least common multiple of 3 and 7? 21

What is 0.024 written as a percentage? 2.4%

How many tenths are in all of the number, 8.3? 83

What is the highest common factor of 12 and 28? 4

What is the least common multiple of 4 and 7? 28

What is 10% of 140? 14

What is 20% of 222? 44.4

What is 2348 ml in litres? 2.348L

What is 4 litres in millilitres? 4000ml

What is the second smallest factor in:

5 5 12 2 17 17 21 3 15 3

How many factors do the following numbers have?

6 4 9 3 21 4 23 2 27 4

$3 + 2 \times 3 = 9$ $2 \times 3 \div 2 = 3$ $4 + 4^2 = 20$ $5 \times 3 - 12 + 7 = 10$ $24 \div 6 \times 3 = 12$
 $4 + 8 \times 2 = 20$ $9 + 12 \times 2 = 33$ $16 \div 2 \times 3 = 24$ $22 \times 11 = 242$ $23 - 24 \div 6 = 19$

Word Whizz (50 credits)

1. Antonyms - circle the one in each row that means something opposite

finish	close	initiate	completion	conclusion
obstruct	block	barrier	enable	obstacle
viable	immortal	infectious	impractical	industrious
wonder	apathy	shock	awe	amazement
proud	haughty	humble	aloof	arrogant
certain	assured	confident	reticent	positive
below	superior	under	beneath	subservient
cabin	lodge	mansion	cottage	bungalow
golden	blonde	flaven	brilliant	brindle
shout	murmur	clamour	bellow	scream

2. Synonyms - circle the one that means something similar

proud	fulsome	satisfied	independent	arrogant
certain	assured	exceptional	unrepentant	secular
stamp	recalcitrant	impression	precipitous	conclusion
shout	confiscate	below	bellow	obfuscate
finish	antecedent	repercussion	maximisation	conclusion
burn	instigate	corporation	scorch	repercussion
block	obstruct	intangible	reparation	comply
jagged	tardy	serrated	modified	reprehensible
follow	pursue	collate	remediate	ensue
illness	trilogy	malapropism	diaphragm	virus

3. Prefixes

-mono means "single"

-multi means "more than one"

-omni means "all", "of all things"

lacking in variation	monotonous
having several uses	multipurpose
single track railroad	monorail
all powerful	omnipotent
exclusive possession or control	monopoly
to be present everywhere	omnipresent
using more than one material	multimedia
relating to several ethnic groups	multicultural
consisting of one syllable	monosyllabic
animal that eats plant and animal food	omnivore

4. Suffixes

able to be heard	audible
able to be seen	visible
able to be used or obtained	available
able to be broken	breakable
able to be read	legible
able to be believed	believable
able to be touched	tangible
able to be tolerated	tolerable
able to be thrown away	disposable
able to change	adaptable

5. Singular/ Plural – fill in the missing words

Singular	Plural
tooth	teeth
child	children
person	people
mouse	mice
fungus	fungi
die	dice
phenomenon	phenomena
radius	radii
bacteria	bacterium
index	indices

6. Homophones etc

The runners were quite **stationary** as they waited for the racer's gun. (stationery / stationary)

Look over **there** at *their* toys. (their / there)

I **threw** the basketball **through** the hoop. (threw / through)

He **brought** the book he had **bought** at the sale. (brought / bought)

I'll cover the **aisle** with petals. (aisle / I'll)

I have found the best way to give **advice** to your children is to find out what they want and then **advise** them to do it. (advise / advice)

To **effect** change, you need to be prepared to **affect** other people's thinking through your actions. (affect / effect)

Everyone turned up **except** Paul. (accept / except)

She answered the question **straight** away. (strait / straight)

"This cranberry sauce is an excellent **complement** to the turkey and we must give a **compliment** to Rosie for her great cooking skill." (compliment / complement)

7. Idioms

have second thoughts	have doubts
be in the same boat	be in the same situation
curiosity killed the cat	asking may get you into trouble
get your act together	behave properly
out of the blue	with no warning
horse of a different colour	something is different
give someone the cold shoulder	ignore someone
the icing on the cake	something additional that turns good into great
be second to none	be the best

I'm all ears	you have my undivided attention
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8. Collective nouns

A sloth of	bears
A wisdom of	wombats
A school of	fish
A host of	sparrows
A gaggle of	geese
A mob of	kangaroo
A murder of	crows
A pride of	lions
A parliament of	owls
A cloud of	gnats/sandflies
A troop of	monkeys
A colony of	ants
A pack of	wolves
A pod of	whales
A lounge of	lizards
A colony of	beavers

A plague of	locusts
A blessing of	unicorns
A trip of	goats
A litter of	kittens

9. Gender groups

Species	Female	Male	Baby
donkey	jenny	jack	foal
goose	goose	gander	gosling
fox	vixen	dog	infant
horse	mare	stallion	foal
sheep	ewe	ram	lamb
swan	pen	cob	cygnet
chicken	pullet	rooster	chick
ant	gyne	drone	antling
chimpanzee	empress	blackback	infant
dolphin	cow	bull	calf

Trivia Champion (50 credits)

1. What is the most southern capital city in the world? (Wellington)
2. What is the Prime Minister of New Zealand's name? (Jacinda Ardern)
3. What is the Maori name for the South Island of New Zealand? (Te Wai Pounamu)
4. What is the name of New Zealand's deepest lake? (Hauroko)
5. When did Mount Tarawera erupt? (10 June 1886)
6. What is the Maori name for ocean? (moana)
7. What range of hills are found on the west coast of Auckland (Waitakere Ranges)
8. When did New Zealand women vote in New Zealand for the first time? (28 November 1893)
9. What are the names of the three volcanoes near the shores of Lake Taupo (Ruapehu, Tongariro, Ngauruhoe)
10. Where is the self described 'Kiwifruit Capital of the World'? (Te Puke)
11. What does the maori work *kai* mean? (food or eat)
12. What sport do the New Zealand Warriors play? (Rugby League)
13. What does Tangata Whenua mean? (People of the land)
14. Who is New Zealand's Governor General? (Patsy Reddy)
15. Who skippered a giant catamaran in the fastest circumnavigation of the world in 1994 (Sir Peter Blake)
16. Who wrote the novel Whale Rider? (Witi Ihimaera)
17. Name the group of islands to the east of the New Zealand mainland where the Moriori are the native people? (The Chatham Islands)
18. What is the capital city of China? (Beijing)
19. In which continent would you find Lake Superior (North America)
20. Who was the first women prime minister of New Zealand? (Jenny Shipley)
21. Name two animals that are monotremes. (echidna and platypus)
22. In which country would you find the Great Pyramids? (Egypt)
23. Which country has a 'Great Wall', a 'Terracotta Army' and a 'Forbidden City'? (China)
24. In what country would you wear a stetson? (USA)

25. The 'Burj Khalifa' is the tallest building in the world. Where is it? (Dubai / United Arab Emirates)
26. In which part of the world would you find the blue footed booby? (Galapagos Islands)
27. Which planet is known as the red planet? (Mars)
28. What is the Maori name for the cluster of seven stars also known as The Pleiades? (Matariki)
29. Name the continents (all 7-Africa, Asia, Antarctica, North America, South America, Europe and Australasia or Oceania)
30. What is the capital city of South Korea? (Seoul)
31. Constantinople is now known as what city? (Istanbul)
32. What are ungulates? (hoofed animals)
33. What is the species Cyathea dealbata better known as? (Silver fern)
34. Name two of New Zealand's native frogs? (Hamilton's, Maud Island, Hochstetter, Archey's)
35. When was the Treaty of Waitangi signed? (6 February 1840)
36. When was Queen Elizabeth II crowned? (2nd June 1953)
37. When did Hillary and Tenzing conquer Everest? (29 May 1953)
38. What planet has moons named Io, Europa, Ganymede, and Callisto? (Jupiter)
39. Prince Harry and Meghan Markle are now the Duke and Duchess of where? (Sussex)
40. What is the constellation Crux known as? (The Southern Cross)
41. When was the Napier earthquake? (3 February 1931)
42. In what Shakespearean play do we find the characters Puck and Oberon? (Midsummer's Nights Dream)
43. What is the name of NZ's research base on Antarctica? (Scott Base)
44. What is Uluru? (Ayers Rock)
45. How long is ninety mile beach? (88 kilometres)
46. What fungal disease is threatening pohutukawa? (Myrtle rust)
47. What is the chemical symbol for salt? (NaCl)
48. Who do we associate the father of gravity to be? (Sir Isaac Newton)
49. What is the common name for H₂O ? (water)
50. Where would you find your humerus bone? (arm)

Fitness Fanatics (50 credits)

50 minutes

5 minutes at each station

	Seniors 5 - 8
Station 1	Partner skipping Come up with a skipping combo with a partner
Station 2	Skip through an obstacle course Have some cones and hoops set up and have each skipper go through the course.
Station 3	Jump Maths - buddies Give a math equation to solve, like $2 + 5$. The jumper repeats the math equation and then jumps the answer (in this case, they would jump 7 times). Use more complicated equations to practice math and jumping skills.
Station 4	Back rope skipping and cross over the front.
Station 5	Double Dutch 2 Ropes each end being held by someone
Station 6	Running Skipping round the field
Station 7	Normal skipping
Station 8	Skipping Relay Line up in teams of 5 and then have them skip to the cone and then do 5 star jumps in the hoop.
Station 9	Doubles Skipping One jumps and the other jumps in without a rope and they jump together. Standing side by side with your partner. One person has the jump rope, starts jumping, and then passes one of the handles to

	<p>their partner while continuing to jump rope. Together they turn the jump rope while only one jumps.</p> <p>Two person wheel: Two children standing side by side, each with a jump rope. The children exchange the inside handles of their jump ropes. Together and at the same time they turn the ropes and jump at same time.</p>
Station 10	<p>Long Rope</p> <p>1 long rope and 2 people have each end and swing it over and the skippers run into the middle and jump.</p> <p>Variation</p> <p>Two people turn a long rope and one person jumps in. The turners call out actions (like "touch your nose" or "jump on one leg") for the jumper to complete while jumping. They keep shouting out actions until the jumper makes a mistake. Then the person who called out the action gets to be the next jumper.</p>

Jump Jammers (50 credits)

50 minutes of Jump Jam